

ig. 1A

10% divergence

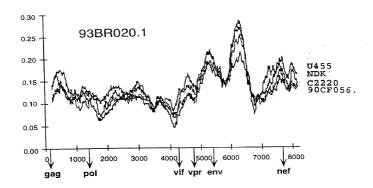


Fig. 2A

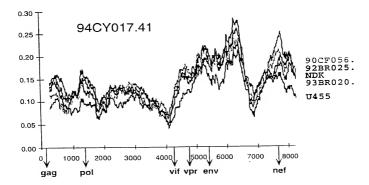


Fig. 2B

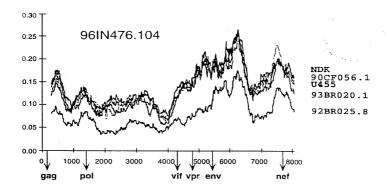


Fig. 2C

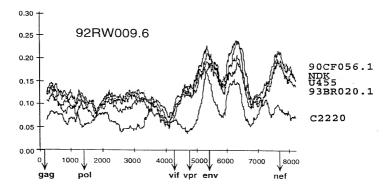


Fig. 2D

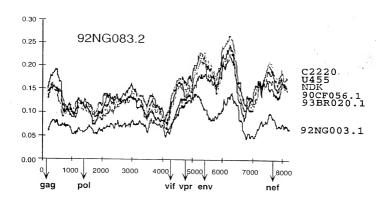


Fig. 2E

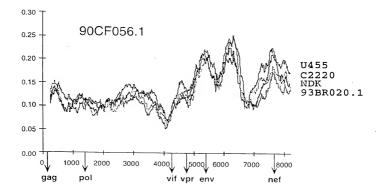


Fig. 2F

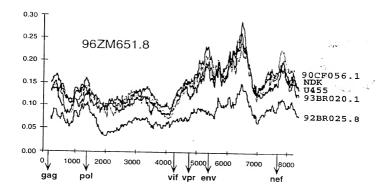


Fig. 2G

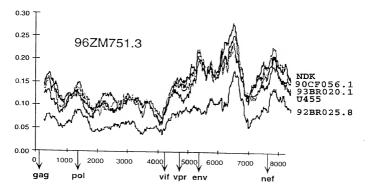


Fig. 2H

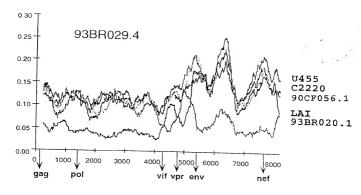


Fig. 2I

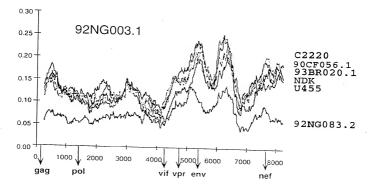


Fig. 2J

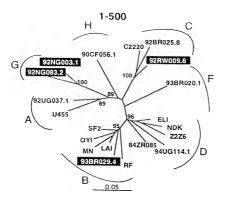


Fig. 3A

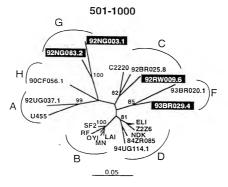


Fig. 3B



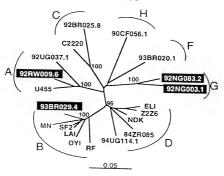


Fig. 3C

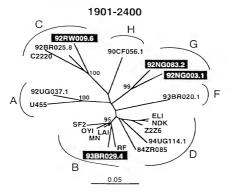


Fig. 3D

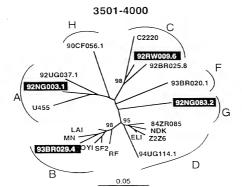


Fig. 3E

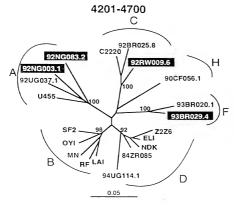


Fig. 3F

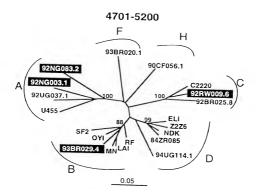


Fig. 3G

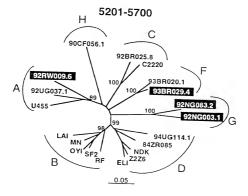


Fig. 3H

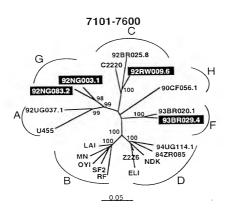
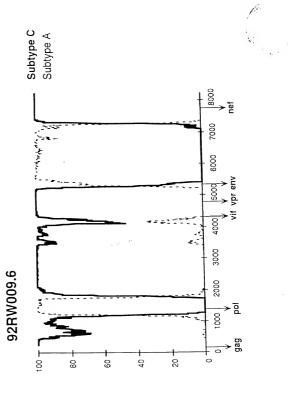
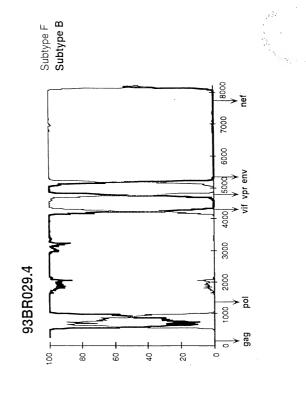


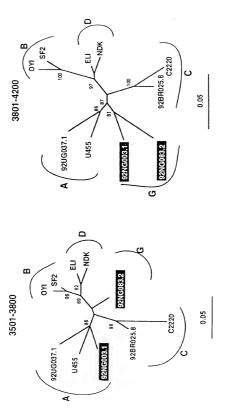
Fig. 3I



ΔA ni=



A 1.



J. 5A

Fig. 5B

٠,٠

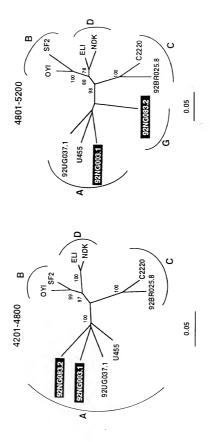


Fig. 5C

Fig. 5D

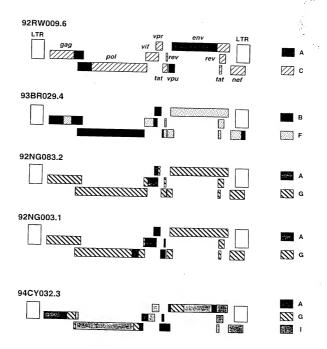


Fig. 6

rev (second exon)	rev (second exon) CONSENSUS_A PYPPROF, ROARKWRARRAWARROROIDSISERILSTCLGRPAEPVPLQLPPTBRLHLDCSBDCGTSGTDQSGG7ETGVGRPQVSVESSVILGSGTKN	frequency 0/14
CONSENSUS_B	PPFSPEGT. RQARRNRRRWRERQRQIRSIS WALLSTYLGRSAEPVPLQLPPLERLTLDCSEDCGTSGTQGVGSPQILVESPAVLESGTKE*	0/52
CONSENSUS_C 93MM950.18 93MM956.26 93MM956.26 93MM956.26 94MM956.26 94MM956.20 00239 00239 00239 94MM97.104 96ZM51.8 96ZM51.3	PY WARROT . ROARY NRRRARMRARORQ HISTS ERILLS TO CLORPALER VELOLP PERLATIOCS ES 70TS 07Q SQ 5TTS 07Q SG	15/15
CONSENSUS_D	PPPSPEGT. RQARRNRRRRWRARQRQIHSIGERILSTYLGRPEEPVPLQLPPLERLNLNC?EDCGTSGTQGVGSPQISVESPAVLDSGTEE*	0/15
CONSEMSUS_E	P? PSSEGT. RQTRKNRRRRWRARQRQIRAISERILSTCLGRSTE PV PLQLP PLERLHLDCSEDCGTSGTQQSQGTETGUGRPQISGESSVILGPGTKN*	6/0
CONSENSUS_F	PY PKPEGT. RQARRINRRRWRARQRQIREISERIILSSCLGRPEEPV PLQLPPLERLHINCSEDC?QGAEEGVGSPQTSGESHAVLGSGTKE*	0/4
CONSENSUS_G	PY PPPEGT. RQAR?NRRRRARGRQIH?ISERILS?CLGRPAEPVPLQLPPLERLHLDCSEDSGTSGTQQSQGTETGVGGPQISVESSVVLGSG?KE*	1/8
CONSENSUS_H	PCPEPTGT. KQARRNRARRARQRQIREISEALLISCLGRPPEPVTLQLPPLERLTLNCSEDCGTSGEKGEGSPQISLESSTILGTGTKE°	0/1

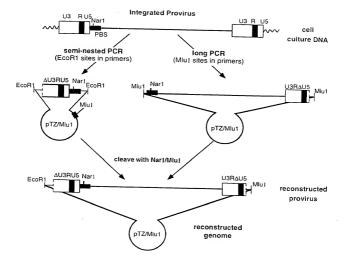
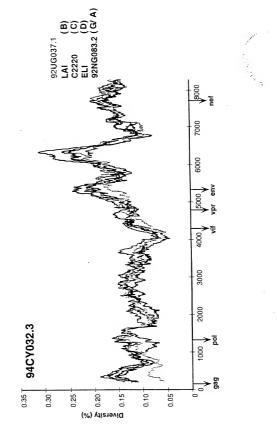


Fig. 8



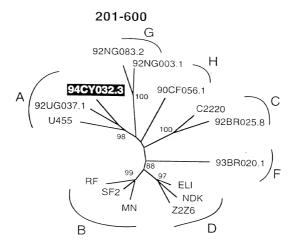


Fig. 10A

1101-1500

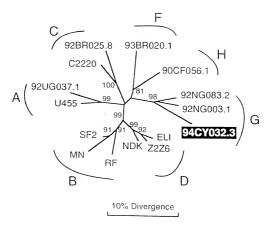


Fig. 10B

1751-2150

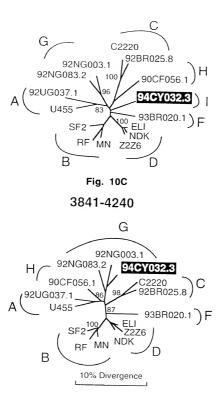


Fig. 10D



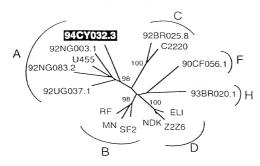
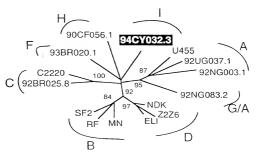


Fig. 10E





10% Divergence

Fig. 10F



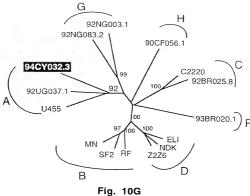
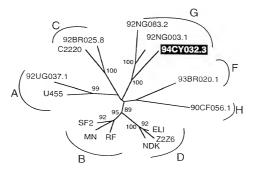


Fig. 10G 5471-5870



10% Divergence

Fig. 10H

5901-6300

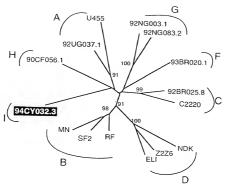


Fig. 101

6821-7220

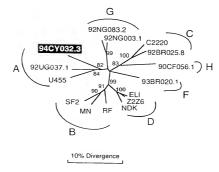


Fig. 10J

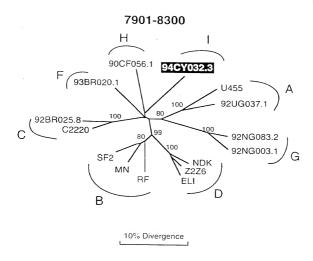


Fig. 10K

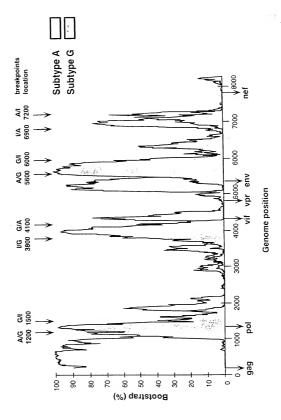
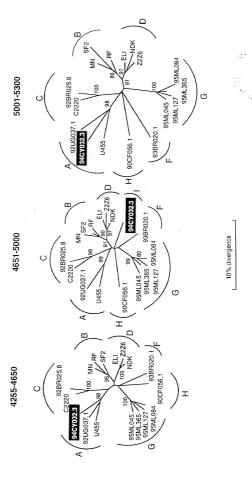


Fig. 11



ia. 12

0200020 1	CTGAAAGCGAAAGTAA.ACCAGAGAAGAACTCTCGA	35
93BR020.1		57
92NG083.2	ATGAAAGCGAAAGTTAATAGGGACTCA	36
90CF056.1		36
92RW009.6	A	57
92NG003.1		£ 36
93BR029.4		
94CY032.3		56
96ZM651.8		35
96ZM751.3		36
94CY017.41	TTCABBCCCBBCTABCAGGGACTCTGTI	57
94IN476.104	T	36
J411470.104		
93BR020.1	CGCAGGACTCGGCTTGCTGAA.GTGCACACGGCAAGAGGCGAGA.GCGGCGACTGGTGAG	.93
	CGCAGGAC I COGCI I OCTOAA : GTGCACACGGCI I GA GGCGAGAI GA GGCGAGAI GA GGCGAGAI GA GGCGAGAI GA GGCGAGAI GA GGCGAGAI GA GGCGAGA GA GGCACACGGCI I GA GA GGCGAGAI GA	115
92NG083.2	A	94
90CF056.1	A	95
92RW009.6	G	115
92NG003.1	AA	
93BR029.4	GG	95
94CY032.3	AA	114
96ZM651.8	TGG	93
96ZM751.3		94
94CY017.41		116
94IN476.104	T-AGG	94
941N470.104	GAG start	
	TACGCCAAAATTTGACTAGCAGAGG.CTAGAAGGAGAGAGATGGGTGCGAGAG	145
93BR020.1	TACGCCAAAATTTGACTAGCAGAGG.CTAGAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	168
92NG083.2		149
90CF056.1	GTTT	
92RW009.6		151
92NG003.1	G	169
93BR029.4	AATAAAATTTGGG	154
94CY032.3	G	168
96ZM651.8		149
		149
96ZM751.3		171
94CY017.41	TA-T-11	150
94IN476.104	GG	130
		205
93BR020.1	CGTCAGTATTAAGCGGGGGAAAATTAGATGCTTGGGAAAAAATTCGGTTAAGGCCGGGGG	228
92NG083.2	A	
90CF056.1		209
92RW009.6	AAAC	211
92NG003.1	AGA	229
93BR029.4	AAA-AA-A	214
94CY032.3	AAAAAA	228
96ZM651.8	AAAAAAACACA	209
	AAAA	209
96ZM751.3	A	231
94CY017.41	202	210
94 IN476.104	AAAAGA	210
		263
93BR020.1	G.AAAGAAAAATATAGACTAAAACATCTAGTATGGGCAAGCAGGG.AGCTAGAACGATT	
92NG083.2	GAAA	286
90CF056.1		267
92RW009.6	-GCTGA-GC	270
92NG003.1		287
93BR029.4	C-T	273
94CY032.3	-,AT-GA	286
	CGC TGA C	267
96ZM651.8	A GC - C TGA - G CT - A	267
96ZM751.3	- CChh	289
94CY017.41		268
94 IN476.104	C - T TGA CT	200
93BR020.1	TGCACTTGATCCAGGCCTTCTAGAAACATCAGAAGGCTGTCGAAAAATAATAGGACAGTT	323
92NG083.2		346
90CF056.1	T-C-GAA-	327
92RW009.6		330
92NG003.1	A-CT-ACTATAGCGAC-	347
93BR029.4	CGACC-G-AC-	333
	CA-CTG-AA-CTG-A	346
94CY032.3		327
96ZM651.8	A C C C	327
96ZM751.3	A-CTTG	349
94CY017.41	CT - A - A - C - T T C G - A A - C A - G A - C A	328

CTGAAAGCGAAAGTAA ACCAGAGAAGAACTCTCGA

Fig. 13A

92NG083.2	GG-TCTAGT-GT-GAC	406
90CF056.1	GG-TAAAATTCT-G	387
92RW009.6	GG-TATATGG	390
92NG003.1	GTCAGA-TTGAC	407
93BR029.4	GAGAC	393
94CY032.3	TA-TCA-AAT-GTAAC	406
96ZM651.8		387
96ZM751.3	G-TCAGAT-GG	387
94CY017.41	G-TCAAT	409
94IN476.104	TG-TAAGAT-GGTCCGAC	388
93BR020.1	CCTCTATTATGTACATCAAAAGGTAGAGGTAAAAGACACCAAGGAGGCTTTAGAGAAGCT	443
92NG083.2	AACCG-AG-	466
90CF056.1		447
92RW009.6		450
92NG003.1	AAG-AG-AG-	467
93BR029.4	AAAAAA	453
94CY032.3	GG-GC	466
96ZM651.8	TACC-G-A-	447
96ZM751.3	TACCA-	447
94CY017.41	AC-GG	469
94IN476.104	TACA-	448
93BR020.1	AGAGGAAGAACAAAGGTCGGCAAAAGACACAGCAA	489
92NG083.2	GAAATGCAAG-A-TGGCAA-AG	515
90CF056.1	ATAAAA	496
92RW009.6	GGCAGAAAG	502
92NG003.1	GAAATGCAAG-AA-GGCAA-TG	516
93BR029.4	GAAA-AG	501
94CY032.3	GTGA-CAAGGCAAG	515
96ZM651.8	AAAACACAGCAAG	505
96ZM751.3	AAAAAA	499
94CY017.41	TGCAAG	512
94IN476.104	GGCAAAA-A-G	500
		540
93BR020.1	GCTGAAAAAGGGGTCAGTCAAAATTACCCTATAGTACAGAATCTTCAGGGA	575
92NG083.2	AAGG-AACAGTAACCCACTGGCAAG	556
90CF056.1	-A-A-GGAAAGACAACAATGCAG	553
92RW009.6	-ACAGG-AAA	576
92NG003.1	-G-AGG-AACAGCAGCCAATCTGCAAG	561
93BR029.4 94CY032.3	AACAC-GG-AACAACAGCCAGGGGGG	575
94CY032.3 96ZM651.8	C-C-GGTAGCAGCAATC	553
96ZM751.3	-AC-G	547
94CY017.41	-ACAC-GGGAACAGCAGTCGAGCAAG	566
94C1017.41 94IN476.104	-AC-G	548
341N4 /6.104	-AC-G	540
93BR020.1	CAAATGGTACACCAGTCTTTATCACCTAGAACTTTAAATGCATGGGTAAAGGTGATAGAA	600
92NG083.2	ATG-CAGGAAG	635
90CF056.1	G	616
92RW009.6	G-CAGGAAG	613
92NG003.1	G	636
93BR029.4	AAG	621
94CY032.3		635
96ZM651.8		613
96ZM751.3	GAG	607
94CY017.41		626
94 IN476.104		608
93BR020.1	GAGAAGGCTTTTAGTCCAGAAGTAATACCCATGTTTTCAGCATTATCAGAAGGGGCCACT	660
92NG083.2	AGA	695
90CF056.1	A	676
92RW009.6	AA	673
92NG003.1	AAACCAC	696
93BR029.4	AC	681
94CY032.3	A	695
96ZM651.8		
	AA	673
96ZM751.3	AAC	667
96ZM751.3 94CY017.41	A A C	

92NG083.2		755
90CF056.1	CTG-TC	736
92RW009.6		733
92NG003.1		¥ . 756
93BR029.4		741
94CY032.3		
96ZM651.8		733
96ZM751.3 94CY017.41	CTCT	727
94IN476.104	CTCT	746
2411470.104	- CICI	120
93BR020.1	TTAAAAGACACCATCAATGAGGAGGCTGCAGAATGGGACAGATTACATCCAACACAGGCA	780
92NG083.2	CGTT	815
90CF056.1	GGGTGT	796
92RW009.6	C	793
92NG003.1	CTT-TTAAGTGCCA	816
93BR029.4	A	801
94CY032.3	GACGTT	815
96ZM651.8	TTGTGT	793
96ZM751.3	TG	787
94CY017.41		806
94IN476.104	T	788
93BR020.1 92NG083.2	GGACCCATCCCCCAGGTCAGATAAGGGAACCTAGGGGAAGTGATATAGCTGGAACTACT	840
92NG083.2 90CF056.1	GTTAAAA	875
92RW009.6	GTTACAAAAA	856
92NG003.1	GTG-TG-GAAAAAA	853 876
93BR029.4	TACG	861
94CY032.3	G <u>T</u> <u>T</u> AAAA	875
96ZM651.8	GTTG-AAAA	853
96ZM751.3	GTTG-ACAAACA	847
94CY017.41	GTTACA	866
94IN476.104	GT-ATACGAA	848
		040
93BR020.1	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900
93BR020.1 92NG083.2	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900 935
93BR020.1 92NG083.2 90CF056.1	AGTACCCTTCAGGAACAAATACAATAGATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900 935 916
93BR020.1 92NG083.2 90CF056.1 92RW009.6	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAAGA	900 935 916 913
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900 935 916 913 936
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900 935 916 913 936 921
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900 935 916 913 936 921 935
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAAGAG	900 935 916 913 936 921 935 913
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	AGTACCCTTCAGGAACAAATACAAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900 935 916 913 936 921 935 913
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900 935 916 913 936 921 935 913 907
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	AGTACCCTTCAGGAACAAATACAAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900 935 916 913 936 921 935 913
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900 935 916 913 936 921 935 913 907 926 908
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900 935 916 913 936 921 935 913 907 926 908
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900 935 916 913 936 921 935 913 907 926 908
93BR020.1 92NG083.2 90CF056.1 92NG009.6 92NG009.6 92NG009.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900 935 916 913 936 921 935 913 907 926 908
93BR020.1 92N0083.2 90CF056.1 92RW009.6 92RW009.6 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92RW063.2 90CF056.1 92RW009.6	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAAGAGC	900 935 916 913 936 921 935 913 907 926 908
93BR020.1 92NC083.2 90CF056.1 92RW009.6 92NC003.1 93BR029.4 94CY032.3 962W651.8 962W751.3 94CY017.41 94IN476.104 93BR020.1 92NC083.2 90CF056.1 92RN009.6 92RN009.6	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900 935 916 913 936 921 935 907 926 908 960 976 973 996
93BR020.1 92NR0083.2 90CF056.1 92RW009.6 92NS003.1 93BR029.4 94CY032.3 96ZW751.3 94CY017.41 94IN476.104 93BR020.1 92NS0083.2 90CF056.1 92RW009.6 92NS003.1 92NS003.1	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900 935 916 913 936 921 935 913 907 926 908 960 973 996 981
93BR020.1 92BR020.1 92KR009.6 92KR009.6 92KR009.1 93BR029.4 94CY032.3 962M651.8 94CY017.4 93BR020.1 92KR009.2 92KR003.2 90CP056.1 92KR009.6 92KR009.6 92KR009.6 92KR009.6	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900 935 916 913 936 921 935 907 926 908 960 973 995 973
93BR020.1 92NR0083.2 90CF056.1 92RW009.6 92NS003.1 93BR029.4 94CY032.3 96ZW751.3 94CY017.41 94IN476.104 93BR020.1 92NC0083.2 90CF056.1 92RW009.6 92NC003.3 94CW009.6	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900 935 916 913 936 921 935 913 907 926 908 960 973 995 973 995 973
93BR020.1 92NR083.2 90CF056.1 92RR009.6 92NR0003.1 93BR029.4 94CY032.3 962M651.8 94CY017.41 93BR020.1 92NR009.2 92R0093.2 90CP056.1 92NR009.6 92R0003.1 93BR020.1 94CY017.3 94CY017.4	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAAGAGCAA	900 935 916 913 936 921 935 907 926 908 969 973 995 973 995 973 995
93BR020.1 92NR0083.2 90CF056.1 92RW009.6 92NS003.1 93BR029.4 94CY032.3 96ZW751.3 94CY017.41 94IN476.104 93BR020.1 92NC0083.2 90CF056.1 92RW009.6 92NC003.3 94CW009.6	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900 935 916 913 936 921 935 913 907 926 908 960 973 995 973 995 973
93BR020.1 92BR020.1 92CF056.1 92CF056.1 92RW005.6 93BR029.4 94CY032.3 962ZM651.8 962ZM751.3 94CY017.41 94IN476.104 93BR020.1 92BR020.1 92BR0003.2 92BR0003.2 92BR0003.3 92BR0003.3 92BR0003.3 92BR0003.4 92BR0003.4 92BR0003.4 92BR0003.4 92BR0003.4 92BR0003.4 92BR0003.4 92BR0003.4 92BR0003.4 92BR0003.4 92BR0003.4 92BR0003.4 93BR0003	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAAGAGCAA	900 935 916 913 936 921 935 913 907 926 908 969 976 981 995 973 968
93BR020.1 92NR083.2 90CF056.1 92RR009.6 92NR0003.1 93BR029.4 94CY032.3 962M651.8 94CY017.41 93BR020.1 92NR009.2 92R0093.2 90CP056.1 92NR009.6 92R0003.1 93BR020.1 94CY017.3 94CY017.4	AGTACCCTTCAGGAACAAATACAAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900 935 916 913 936 921 935 907 926 908 960 973 996 973 996 981 995 973
93BR020.1 92NR083.2 90CF056.1 92RW009.6 92NK009.1 93BR029.4 94CY0213.1 94CY0213.1 94CY0213.1 94CY0217.41 94IN476.104 93BR020.1 92NK0083.2 90CF056.1 92NK0083.2 90CF056.1 92NK0083.2 94CY017.41 94IN476.104	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900 935 916 913 936 921 935 913 907 926 908 969 973 995 973 995 973 986 968
93BR020.1 92BR020.1 92BR0093.2 90CF056.1 92BR0095.6 132BR0093.4 94CY032.3 94CY017.41 94IN476.104 93BR020.1 92BR0093.6 93BR029.4 93BR029.4 93BR029.4 93BR029.4 93BR029.4 93BR029.6	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900 935 916 913 936 921 935 913 907 926 995 973 996 981 995 973 986 981 968
93BR020.1 92BR020.1 92R0083.2 90CF056.1 92RR009.6 92RN0003.1 93BR029.4 93E28.6 94CY032.3 94CY031.41 94LN016.1 93BR020.1 92RN003.2 90CF056.1 92RN003.2 90CF056.1 94LN017.4 93BR020.1 92RN003.1 94LN017.4 93BR020.1 92RN003.1	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900 935 916 913 936 921 935 913 907 926 908 969 973 995 973 995 973 986 968
93BR020.1 92BR020.1 92BR009.6 92CF056.1 92BR009.6 93RK0003.4 942FV032.3	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900 935 916 913 936 921 935 913 908 960 995 973 996 981 995 973 967 986 981
93BR020.1 92BR020.1 92CF056.1 92CK005.1 92EK009.9 93BR029.4 94CY032.3 962Z4651.8 962Z4751.3 94CY017.41 92BR029.1 92BR020.1 92BR0003.1 92BR0003.1 92BR0003.1 92BR0003.1 92BR0003.1 92BR0003.1 92BR0003.1 92BR0003.1 92BR0003.1 92BR0003.1 92BR0003.1 92BR0003.1 92BR0003.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR000.1 93BR000.1 93BR000.1 93BR000.1 93BR000.1	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAAGAGCAA	900 935 916 913 921 935 913 907 926 908 960 995 973 996 981 995 973 995 973 995 976 973 973 975 976 976 977 977 978 978 978 978
93BR020.1 92BR009.6 92CF056.1 92RW009.6 92RW009.3 93BR029.4 94CY017.41 94IN476.104 93BR020.1 93ER020.1 93ER020.1 93ER029.4 94CY017.41 93ER020.1 93ER020.1 93ER020.1 93ER020.1 93ER020.1 93ER020.1	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900 935 916 913 936 921 931 935 908 968 967 973 995 973 996 968 1020 1055 1036 1041 1056
93BR020.1 92NR093.2 90CF056.1 92RN009.6 913BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR020.1 92RN009.6 92RN509.3 94CY017.4 93BR020.1 93RN029.4 94CY017.4 94IN476.104 93BR021.3 94CY017.4 94IN476.104	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAAGAGCA	900 935 916 913 936 921 935 907 908 960 995 973 996 981 995 973 996 981 1020 1055 1033 1056 1041 1055 1033
93BR020.1 92BR009.6 92CF056.1 92RW009.6 92RW009.3 93BR029.4 94CY017.41 94IN476.104 93BR020.1 93ER020.1 93ER020.1 93ER029.4 94CY017.41 93ER020.1 93ER020.1 93ER020.1 93ER020.1 93ER020.1 93ER020.1	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900 935 916 913 936 921 931 935 908 968 967 973 995 973 996 968 1020 1055 1036 1041 1056

Fig. 13C

93BR020.1	TTTAAAACCCTAAGAGCTGAGCAAGCTACACAGGAAGTAAAGGGTTGGATGACAGCC	1115
92NG083.2 90CF056.1	TGAAA	1096
92RW009.6		1093
92NG003.1	TT-GCGAAAC	1116 -
93BR029.4	- A T A	1,101
94CY032.3	TGTCAACGGAAAA	1115
96ZM651.8	CTTAGAAAA	1093.
96ZM751.3	A	1086
94CY017.41	G	1106
94IN476.104	AAA	1088
93BR020.1	TTGTTGGTCCAAAATGCGAACCCAGATTGTAAGACCATTTTAAAAGCATTGGGACCAGGG	1140
93BR020.1 92NG083.2	A	1175
92NG083.2 90CF056.1		1156
92RW009.6	AGAG	1153
92NG003.1	AGA	1176
93BR029.4	CA	1161
94CY032.3	CCAA	1175
96 ZM651.8	AA	1153
96ZM751.3	GGA	1146
94CY017.41	CA	1166
94IN476.104	GA	1148
93BR020.1	GCTACACTAGAGGAAATGATGACAGCATGTCAGGGAGTGGGAGGACCTAGCCATAAGGCA	1200
92NG083.2	AAA	1235 1216
90CF056.1	TAA	1216
92RW009.6	TTA	1213
92NG003.1	AC	1221
93BR029.4	AAAA	1235
94CY032.3 96ZM651.8	A	1213
962M751.3	G	1206
94CY017.41	CTTA	1226
94IN476.104	TTA	1208
24111470.204		
93BR020.1	AGAGTTTTGGCTGAGGCAATGAGCCAAGCAACAAATACAGCTATAATGATG	1251
92NG083.2	AAGCCGTGG-GCAGCAGAGCC	1295
92NG083.2 90CF056.1	A	1273
	GAAT-CACAACAAC	1273 1264
90CF056.1 92RW009.6 92NG003.1		1273 1264 1293
90CF056.1 92RW009.6 92NG003.1 93BR029.4	-G - A - T-CA - CAAC - AAC	1273 1264 1293 1275
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	-G - A - T - ACA - ATA - AGCC - ACA - AGC - ACA - AGC - ACA - AGC - ACA - AGC	1273 1264 1293 1275 1292
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		1273 1264 1293 1275 1292 1264
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-G - A - T-CA - CAA-ATA-AGCC - A - T-CA - CAAC - AAC -	1273 1264 1293 1275 1292 1264 1257
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		1273 1264 1293 1275 1292 1264 1257 1283
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-G - A - T-CA - CAA-ATA-AGCC - A - T-CA - CAAC - AAC -	1273 1264 1293 1275 1292 1264 1257
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	-G- A - T-CA - CAA-ATA-AGCCG- A - GG - GG - ACAT - AGCCA - GG - GG - ACAT - AGCCA - T - TCAGGTA-C - AGCCG - A - AT-G - GTA - AGCCG - A - AT-G - GTA - AGCA-ATA-AAACG - A - T-CA-G - ACA-ATA-AAACG - A - T-CA-G - ACA-ATA-AAACG - A - T-CAT-G - ACA-ATA-AAAC	1273 1264 1293 1275 1292 1264 1257 1283 1256
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.3 96ZM751.3 94CY017.41 94IN476.104	-G. A. TCA. CAA-ATA-AGCCG. A. TCA. CAACAACA. GGG. ACATAGCCA. A. TC. ACAGGTA-CG. A. TG. GCAGAGCCG. A. TC. ACA-ATA-AAACG. A. TTCAG. ACA-ATA-AAACG. A. TCACACAACAACAATGATAAAACTTTAAATGCTTTAATTGTGGCAAAGAA	1273 1264 1293 1275 1292 1264 1257 1283 1256
90CF056.1 92RN009.6 92RN003.1 93BR029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2		1273 1264 1293 1275 1292 1264 1257 1283 1256
90CF056.1 92RW009.6 92RW003.1 93BR029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 94IN476.104 93BR020.1 92BR020.1 92MC083.2 90CF056.1		1273 1264 1293 1275 1292 1264 1257 1283 1256
90CF056.1 92RN009.6 92RN003.1 93BR029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	-G. A. T. T. CACATAAGCCG. A. G. G. G. ACATAGCCA. G. G. G. ACATAGCCA. G. T. T. CACAGCG. A. A. G. T. GCAGAGCCG. A. A. T. G. GTAA. CG. A. T. ACAG. ACAATA. AAACG. A. T. CATG. ACAT. AAACC. CACT. CATG. ACAT. C. C. G.	1273 1264 1293 1275 1292 1264 1257 1283 1256
90CF056.1 92RW009.6 92RW003.1 93BR029.4 94CY032.3 962M751.3 94CY017.41 94IN476.104 93BR020.1 92RW083.2 90CF056.1 92RW009.6	-G. A. TCACAATAAGCCG. A. GGGGG. ACATAGCCAGGG. ACATAGCCAATTTTTGGCTAGGCGATGGGGGGGGGG	1273 1264 1257 1283 1256 1257 1283 1256 1311 1355 1333 1324 1353
90CF056.1 92RW009.6 92RW003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92RW009.6 92RW009.6	-G. A. T. T. CACATAAGCCG. A. G. G. G. ACATAGCCA. G. G. G. ACATAGCCA. G. T. T. CACAGCG. A. G. T. G. G. AGCAGCCG. A. ATG. G. TA. A. CG. A. T. ACG. ACAATA. AAACG. A. T. CAGG. ACATA AAACC. T. CAGG. CACTA T. C. C. G.	1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1353 1324 1353 1353 1352
90CF056.1 92RW009.6 92RW003.1 93BR029.4 94CY032.3 962M751.3 94CY017.41 94IN476.104 93BR020.1 92RW0083.2 90CF056.1 92RW009.6 92RW009.6	-G. A. T. T. CAG. ATT. AGCC. -G. A. G. G. G. G. ACAT. AGCC. -A. G. G. G. ACATAGCC. -A. G. G. G. ACATAGCC. -A. G. G. ACATAGCC. -A. G. ATT G. GCAGAT. AGCC. -A. T. TC. ACATAGCC. -G. A. T. TCG. ACAT. AAAC. -G. A. T. TCG. ACAT. AAAC. -C. T. CG. AAGTAGC. CAGAAAAGTAACTTTAAGGGCCAAAGAAGAATTGTTAAATGCTTTAATTGTGCCAAAGAA G. TC. GAGTGGGGGGGGGG	1273 1264 1275 1293 1275 12964 1257 1283 1256 1311 1355 1353 1353 1353 1353 1354
90CP056.1 92RN009.6 92RN009.6 92RN009.6 92RN009.6 93BR029.4 94CY032.3 962R751.3 94CW1017.41 93BR020.1 92R0093.2 90CP056.1 92RW009.6 92RW009.6 94CW032.3 96ZW751.3	-G. A - A - A - A - A - A - A - A - A - A	1273 1264 1293 1275 1295 1264 1257 1283 1256 1311 1355 1353 1324 1353 1352 1352 1352
90CP056.1 92RN009.6 92RN009.6 92NR009.4 94CY032.3 96ZM551.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92RN009.6 92RN009.6 92RN009.6 92RN009.6 94CY017.41 94CY017.3 94CY017.41	-G. A. T. T. CACATAAGCC	1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324 1353 1352 1324 1313
90CP056.1 92RN009.6 92RN009.6 92RN009.6 92RN009.6 93BR029.4 94CY032.3 962R751.3 94CW1017.41 93BR020.1 92R0093.2 90CP056.1 92RW009.6 92RW009.6 94CW032.3 96ZW751.3	-G. A - A - A - A - A - A - A - A - A - A	1273 1264 1293 1275 1295 1264 1257 1283 1256 1311 1355 1353 1324 1353 1352 1352 1352
90CF056.1 92RM009.6 92RM009.6 92RM009.4 94CW032.3 962M651.8 962M751.3 94CW017.41 92RM009.6 92RM009.6 92RM009.6 92RM009.6 92RM009.6 93RM009.6 93RM009.6 93RM009.4 93RM009.4 93RM009.4 93RM009.4 93RM009.4 93RM009.4 93RM009.4	-G. A. T. T. CACATAAGCC	1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324 1353 1352 1364 1316
90CF056.1 92RW009.6 92RW009.6 92RW009.4 93BR029.4 94CW017.41 94IW151.3 94CW017.41 93BR020.1 93BR020.1 93BR020.1 93BR020.1 94CW017.41 94IW16.1 93BR029.4 94CW017.4 94CW013.3 94CW017.4 94CW017.4 94CW017.4 94CW017.4		1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324 1353 1324 1353 1324 1316
90CF056.1 92RW009.6 92RW009.6 92RW009.4 94CW032.3 962W651.8 962W751.3 94 LW075.1 94 LW075.1 92 LW075.1 92 LW075.1 92 LW075.1 92 LW075.1 92 LW075.1 92 LW075.1 94 LW075.1	-G. A T-CA - CAAC-ATA-AGCCG. A T-CA - CAAC-ACG. A GG - GG - ACAT - AGCCA - GG - GG - ACAT - AGCCG. A G - T-CA - CAAC-ACG. A G - T-CA - CACA-ATA-AACCG. A G - T-T-CA-G - ACA-ATA-AAACG. A G - T-T-CA-G - ACA-ATA-AAACCAGAAAAGTAACTTTAAGGGCCAAAGAAGAATTGTTAAATGCTTTAATTGTGGCAAAGAA -C-T - CG - A G-T - C-C - GG-G-C - T - G-AA - AG-C-A - G-T - C-C - GAC - T-CG - GG-A - G-T - C-C - GG-G-C - T - G-AA - AG-C-A - G-T - C-C - GC-C - G-C - G-T - C-C - G-C -C-C - AAC - AG-C-A - G-T - C-C - G-C -C-C - AAC - AG-C-A - G-T - C-C - G-C -C-C - AAC - AG-C-A - G-T - C-C - G-C -C-C - AAC - AG-C-A - G-T - C-C - G-C -C-C - AAC - AG-C-A - G-T - C-C - G-C -C-C - AAC - AG-C-A - G-T - C-C - G-C -C-C - AAC - AG-C-A - G-T - C-C - G-C -C-C - AAC - AG-C-A - G-T - C-C - G-C -G-G-C - T - A-C-T - A-C-T - A-C-C - G-C -G-G-C-T - A-C-T - A-C-T - A-C-C - G-C -G-G-C-T - A-C-T - A-C-C - G-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C	1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1353 1353 1353 1353 13
90CF056.1 92RW009.6 92RW009.6 92RW009.4 93BR029.4 94CW032.3 94CW017.4 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.3 93BR020.4 94CW032.3 96ZM651.8 96ZM651.8 94CW032.3 94CW032.3 94CW032.3 94CW032.3		1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1335 1352 1317 13416 1371 13416
90CF056.1 92RW009.6 92RW009.6 92RW009.4 94CW032.3 962M651.8 962M751.3 94CW071.4 192RW009.6 93BR020.1 92RW009.6 92RW009.6 94CW032.3 94CW0751.3 94CW0751.3 94CW0751.3 94CW0751.3 94CW0751.3 94CW0751.3 94CW0751.3 94CW0751.3	-G. A. T. T. CAC. ATT. AGCCG. A. G. T. CAC. AGC. AGCA. G. G. G. ACAT. AGCCA. G. T. T. CAC. CAC. AGCA. G. T. T. CAC. CAC. AGCCA. G. T. T. G. CAC. AGCCG. A. ATT. G. GTT. A. CG. A. T. T. T. CAC. G. ACC. ATT. AAACG. A. T. T. T. CAC. G. ACC. ATT. AAACC. T. CAC. G. ACC. ATT. CAC. G.	1273 1264 1293 1275 1292 1257 1283 1256 1311 1355 1335 1324 1353 1352 1316 1317 1316 1317 1316
90CF056.1 92RN009.6 92RN009.6 92RN009.6 92RN009.4 94CR032.3 96CZM651.3 96CZM651.3 96CZM651.3 94CY017.41 92RN009.1 92RN009.5 96CZM656.1 92RN009.5 96CZM651.8 96CZM551.8 96CZM551.8 96CZM551.8 96CZM551.8 96CZM551.8 96CZM551.8		1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1335 1352 1317 13416 1371 13416
90CP056.1 93BR029.4 94CY032.3 96ZM551.8 96ZM551.8 96ZM551.8 96ZM551.8 94CY017.4 192NG083.2 90CP056.1 92RW009.6 92NG003.1 93BR029.4 94CY017.4 91CY050.3 94CY017.4 91CY050.3 94CY017.4 91CY050.3 94CY017.4 91CY050.3 91CY0		1273 1264 1293 1275 1292 1264 1257 1283 1355 13324 1355 1352 1352 1352 1353 1354 1353 1354 1353 1354 1353 1354 1353 1354 1353 1354 1353 1354 1353 1354 1354
90CF056.1 92RN009.6 92RN009.6 92RN009.6 92RN009.4 94CR032.3 96CZM651.3 96CZM651.3 96CZM651.3 94CY017.41 92RN009.1 92RN009.5 96CZM656.1 92RN009.5 96CZM651.8 96CZM551.8 96CZM551.8 96CZM551.8 96CZM551.8 96CZM551.8 96CZM551.8		1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1352 1352 1352 1316 1316 1311 1415 1393 1393 1393 1393 1393 1393 1393 13
90CF056.1 92RM009.6 92RM009.6 92RM009.4 94CW032.3 962M651.8 962M651.8 962M651.8 941M76.104 93BR020.1 92RM009.6 92RM009.6 92RM009.6 93CW056.1 93CW056.1 93CW056.1 94CW056.1	-G. A. T. T. CAC. ATA. AGCCG. A. G. T. CAC. AGC. AGCA. G. G. G. AGCT. AGCCA. G. T.	1273 1264 1293 1275 1292 1264 1257 1286 1311 1355 1333 1324 1317 1340 1316 1371 1415 1393 1383 1393 1314 1415 1393 1383 1393 1383 1393 1383 1393 1393
90CF056.1 92RW009.6 92RW009.6 92RW009.6 92RW009.4 94CW032.3 96ZW651.8 96ZW551.8 94CW017.4 94CW017.4 92RW009.6 92RW009.6 92RW009.6 94CW032.3 94CW017.4 93BR029.4 94CW017.4 93BR029.4 94CW017.4 93BR029.4 94CW017.4 93BR029.4 94ZW009.6 93BW009.6 93BW009.6 93BW009.6 93BW009.6 93BW009.6 93BW009.6		1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1352 1352 1352 1316 1316 1311 1415 1393 1393 1393 1393 1393 1393 1393 13

Fig. 13D

93BR020.1	GAGGGACACCAAATGAAGGACTGCACTGAGAGACAGGCTAATTTTTTAGGGAAAATTTGG	1431
92NG083.2	T 7 - 7 G - 4 - G	1475
	A G	1453
90CF056.1	TGAAAAA	
92RW009.6	AA	1444
		1473
92NG003.1	TAA	
93BR029.4	AC	1455
		.1472
94CY032.3	TGG	
96ZM651.8	AT	1444
	, T	1437
96ZM751.3	AAT	
94CY017.41	- A T A T	1460
	TG	1436
94IN476.104	AA	a , , , , ,
93BR020.1	CCTTCCAACAGGGGAGGCCCGGAAACTTCATCCAGAACAGG	1473
	CCTTCCAACAAGGGGAGGCCCGGAAACTTCATCCAGAACAGG	
92NG083.2	AATC	1517
90CF056.1	GAATTCG	1495
	1 10 0	1486
92RW0096	GAAT-TCCGA	
92NG003.1	AGTTC-T	1515
		1497
93BR029.4	AAAGTGA	
94CY032.3	GAAT-TC-T	1514
		1486
96ZM651.8	CAAGTC-T	
96ZM751.3	C-GGGGC-TACCAGAGCCAACAGCCCCA	1497
		1502
94CY017.41		
94IN476.104	C-TA	1478
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	
93BR020.1	CCAGAGCCGTCAGCCCGCCAGCAGAGAGCTTCAGGTTCGGGGAGGAGACAACCCCATCT	1533
	AAAT-GCC	1577
92NG083.2	AA	
90CF056.1	AAATGC	1555
92RW009.6	-TGAAAATG-AA-GAT-GT-TC	1546
	-IGAA	
92NG003.1	AAAC	1575
93BR029.4	AAAA-TC-C	1557
	AA OI AH I	1574
94CY032.3	AA	
96ZM651.8	AAA	1543
	ma o	1554
96ZM751.3	CTAAA	
94CY017.41	AAAT-CC	1562
	60	1535
94IN476.104	AACG	1333
	CCGAAGCAGGAGCAGAAAGACGAGGGACTGTACCCTCCCTTAGCTTCCCTCAAATCA	1590
93BR020.1	CCGAAGCAGGAGCAGAAAAGACGAGGGACTGTACCCTCAGCTTCCCTCAAAACA	
92NG083.2	TAAA	1631
90CF056.1	GAA-CGCTGAAC	1609
	GAA-CGCIGAC	1594
92RW009.6	-TAAGATAT	
92NG003.1	-TA-CGGAAA-TCAA-C	1629
	T	
93BR029.4	T-TCAAGG	1614
94CY032.3	-TA-CGGAAATATAA	1628
	mg	1591
96ZM651.8	GA	
96ZM751.3	GAAA	1602
	T C CAC AC A CAC A	1619
94CY017.41	-TA-1-G-GAC-AGACAIGC-A1	
94IN476.104	AA	1583
	GAG end	
	GAO CHE	1650
93BR020.1	CTCTTTGGCAACGACCCCTAGTCACAATAAGAGTAGGGGGGACAGCTAAAGGAAGCTCTAT	
92NG083.2		1691
		1669
90CF056.1		
92RW009.6		1654
92NG003.1	CTCTTTGGCACCCCTAGTCACAATAAGAG 1 ROGGGGACAGC 1 AAAAGAG 1 ROGGGGACAGC 1 AAAAGAG 1 ROGGGGACAGC 1 AAAAGAG 1 AAAAAGAG 1 AAAAAAAA	1689
		1674
93BR029.4		
94CY032.3	A-CAGGTTAGCAAGC-	1688
		1651
96ZM651.8		
96ZM751.3	TGGC-	1662
		1679
94CY017.41		
941N476.104	ACA	1643
	-	
93BR020.1	TAGATACAGGAGCAGATGATACAGTATTAGAAGACGTAAATTTGCCAGGAAAATGGAAAC	1710
92NG083.2	CAA	1751
	C	
90CF056.1		1729
92RW009.6	AA	1714
		1749
92NG003.1	CA	
93BR029.4	AA	1734
		1748
94CY032.3	AA	
96ZM651.8	CGC	1711
	22	1722
96ZM751.3	-GAAAA	
94CY017.41	AA	1739
94IN476.104		
	C	1703
	C	1703
	Fig. 13E	1703
	C	1703

93BR020.1	CAAAAATGATAGGGGGAATTGGAGGTTTTATCAAAGTAAAACAGTATGATAGCATACTCA	1770
92NG083.2		1811
90CF056.1		1789
92RW009.6		1809
92NG003.1		1794
93BR029.4 94CY032.3		. 1808
94CY032.3		1771
96ZM751.3		1782
94CY017.41	GACAGGCT-	1799
94 IN476.104		1763
93BR020.1	TAGAAATTTGTGGACACAGAGCTATAGGTACAGTGTTAGTAGGACCTACGCCTGTCAACA	1830
92NG083.2	AA-A-AGAAAA	1871
90CF056.1		1849 1834
92RW009.6 92NG003.1	A-A-AGAATAT	1869
93BR029.4	A	1854
94CY032.3	A-A-AGCCAAA	1868
96ZM651.8	-GA-A-AGAAAA	1831
96ZM751.3	A-A-AGAAA	1842
94CY017.41	A-AGCA-ACC	1859
94IN476.104	A-A-AGA-A-AGAA	1823
93BR020.1	TAATTGGAAGAAATATGTTGACCCAGATTGGTTGTACTTTACATTTTCCAATTAGTCCTA	1890
92NG083.2	A-CA-CA-CA-C	1931
90CF056.1		1909 1894
92RW009.6	A-CA-CA-CA-C	1929
92NG003.1 93BR029.4	C	1914
94CY032.3	AA	1928
96ZM651.8	ACACA	1891
96ZM751.3	G	1902
94CY017.41	CAA	1919
94IN476.104		1883
93BR020.1	TTGAGACTGTACCAGTAAAATTGAAGCCAGGAATGGATGG	1950
92NG083.2	A	1991 1969
90CF056.1	AAA	1954
92RW009.6 92NG003.1	AAAA	1989
93BR029.4	A	1974
94CY032.3	h	1988
96ZM651.8	A	1951
96ZM751.3	A	1962
94CY017.41	AAAA	1979
94 IN476.104	A	1943
		2010
93BR020.1	CATTGACAGAAGAAAAAAAAAGCATTAACAGAAATGTATGGAAATGGAAAGGAAG	2010
92NG083.2 90CF056.1		2029
92RW009.6		2014
92NG003.1		2049
93BR029.4		2034
94CY032.3		2048
96ZM651.8	G	2011
96ZM751.3		2022
94CY017.41		2039
94IN476.104	TAAG	2003
93BR020.1	CARARAMETERS AND AMERICA COMPANA AND AMERICAN AND AMERICAN CONTRACTOR CONTRACTOR AND AMERICAN CONTRACTOR CONTRACTOR AND AMERICAN CONTRACTOR AND AMERICAN CONTRACTOR CONTRACTOR AND AMERICAN CONTRACTOR CONTR	2070
93BK020.1 92NG083.2	GAAAAATTTCAAAAATTGGGCCTGAAAATCCATACAATACTCCAGTATTTGCCATAAAGA	2111
90CF056.1		2089
92RW009.6		2074
92NG003.1	AA	2109
93BR029.4		2094
94CY032.3	-CGATT	2108
96ZM651.8	AA-	2071
96ZM751.3	A	2082
94CY017.41		2099
94 IN476.104	A	2063

Fig. 13F

93BR020.1	AAAAAGACAGTACTAAATGGAGGAAATTAGTAGATTTCAGAGAACTTAATAAAAGAACTC	2171
92NG083.2	AG	2149
90CF056.1	-GGTA	2134
92RW009.6	-GG	2169
92NG003.1		2154
93BR029.4	T	2168
94CY032.3		2131
96ZM651.8	-GG	2142
96ZM751.3	-GG	2159
94CY017.41		2123
94IN476.10	GGG	2123
93BR020.1	AAGATTTTTGGGAGGTTCAATTAGGAATACCGCATCCAGCAGGGTTAAAAAAAA	2190
93BR020.1 92NG083.2	AAGATI TIIGGAAGATEAATACCAATACCAATACAATACAATACAATAC	2231
92NG083.2 90CF056.1		2209
	C	2194
92RW009.6 92NG003.1	CC	2229
93BR029.4	CCAGAC	2214
94CY032.3	-GCCAGA-	2228
94CY032.3	CAAAC	2191
96ZM751.3	-GCA	2202
94CY017.41	CCAAAG	2219
94C1017.41		2183
941N4/6.10	,	
93BR020.1	CAGTAACAGTACTGGATGTGGGGGATGCATATTTTTCAGTTCCCTTAGATAAGGATTTCA	2250
92NG083.2	GAAC	2291
90CF056.1	T	2269
92RW009.6	G	2254
92RW009.6		2289
93BR029.4		2274
94CY032.3		2288
96ZM651.8	G-AAGC	2251
96 ZM751.3	G	2262
94CY017.41		2279
94 IN476.10	4GTG-A-GCG	2243
9410476.10	4	
93BR020.1	GGAAGTA CACTGCATCCACCATA CCTAGTA CCAACAATGAGACACCAGGAGTTAGGTACC	2310
92NG083.2	. m mm m m	2351
90CF056.1	-AT	2329
92RW009.6	ATTAAT	2314
92NG003.1	-A	2349
93BR029.4		2334
94CY032.3	AAT-	2348
96ZM651.8	ATGAA!	2311
96ZM751.3	aTGAAT-	2322
94CY017.41	-AATTT-	2339
94 TN4 76 . 10	4AT	2303
,1111170114		
93BR020.1		
92NG083.2	AGTACAATGTGCTTCCACAAGGATGGAAAGGATCACCAGCAATATTCCAATATAGCATGA	2370
	AGTACAATGTGCTTCCACAAGGATGGAAAGGATCACCAGCAATATTCCAATATAGCATGA	2411
90CF056.1	-A	2411 2389
90CF056.1	-A	2411 2389 2374
	-A	2411 2389 2374 2409
90CF056.1 92RW009.6	-A G T - GAG GAG	2411 2389 2374 2409 2394
90CF056.1 92RW009.6 92NG003.1 93BR029.4	-A	2411 2389 2374 2409 2394 2408
90CF056.1 92RW009.6 92NG003.1	-A	2411 2389 2374 2409 2394 2408 2371
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	-A	2411 2389 2374 2409 2394 2408 2371 2382
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	-A	2411 2389 2374 2409 2394 2408 2371 2382 2399
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-A	2411 2389 2374 2409 2394 2408 2371 2382
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.3 96ZM751.3 94CY017.41 94IN476.10	-A	2411 2389 2374 2409 2394 2408 2371 2382 2399 2363
90CF056.1 92RW009.3.1 93BR029.4 94CY032.3 96ZM651.3 96ZM751.3 94CY017.41 94IN476.10	-A	2411 2389 2374 2409 2394 2408 2371 2382 2399 2363
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.4 94IN476.10 93BR020.1 92NG083.2	-A	2411 2389 2374 2409 2394 2408 2371 2382 2399 2363 2430 2471
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.8 96ZM751.3 94CY017.4 94IN476.1(93BR020.1 92NG083.2 90CF056.1	-A	2411 2389 2374 2409 2394 2408 2371 2382 2399 2363 2430 2471 2449
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.8 96ZM751.3 94CY017.4 94IN476.10 93BR020.1 92NC083.2 90CF056.1 92RW009.6	-A	2411 2389 2374 2409 2394 2408 2371 2382 2399 2363 2430 2471 2449 2434
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.10 93BR020.1 92NG083.2 90CF056.1 92RW009.6	-A	2411 2389 2374 2409 2394 2408 2371 2382 2399 2363 2430 2471 2449 2434 2469
90CF056.1 92RW009.6 92NG003.1 93BR029.3 96ZM651.3 96ZM551.3 94CY017.4 94IN476.1 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	-A	2411 2389 2374 2409 2394 2408 2371 2382 2399 2363 2430 2471 2449 2434 2469 2454
90CF056.1 92RW009.6 92RW003.1 93RR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.10 93RR020.1 92RW09.6 92RW09.6 92RW003.1 93RR029.4 94CY032.3	-A	2411 2389 2409 2394 2408 2371 2382 2399 2363 2471 2449 2434 2469 2454
90CF056.1 92RW009.6 92NG003.1 93RR029.4 94CY032.3 962M751.3 94CY017.41 93RR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	-A G GAG	2411 2389 2409 2394 2408 2371 2389 2363 2430 2471 2449 2434 2469 2454 2468 2431
90CP056.1 92RW009.6 92RW003.1 93BR029.4 94CY032.3 96ZW651.8 96ZW751.3 94CY017.41 93BR020.1 93BR020.1 92RW009.6 92RW009.6 92RW009.3 94CY032.3 96ZW651.8	-A	2411 2389 2374 2409 2394 2408 2371 2382 2399 2363 2430 2471 2449 2434 2469 2454 2468 2431 2442
90CF056.1 92RW009.6 92NG003.1 93RR029.4 94CY032.3 962M751.3 94CY017.41 93RR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	-A G GAG	2411 2389 2409 2394 2408 2371 2389 2363 2430 2471 2449 2434 2469 2454 2468 2431

Fig. 13G

93BR020.1 92NG083.2		
	ATGATTTGTATGTAGGGTCTGACTTAGAAATAGGACAGCATAGAACAAAAATAGAAGAGT	2490
	ATGATT I GTA I GTA GOOT C TOACT TA GAACAA TA GOACA GCA TA GAACAA TA GAACA G	
	GGG	2531
90CF056.1	AG	2509
90CF056.1	GGGGG	
92RW009.6	CG	2494
92NG003.1	A	2529
93BR029.4	T-GGA-	2514
94CY032.3	GAG	2528
		2491
96ZM651.8	CCA	
96ZM751.3	CAT	2502
	G	
94CY017.41	CGTG-A	2519
04711476 104		2402
94 IN476.104	C	2483
93BR020.1	TAAGAGAACATCTACTGAAATGGGGATTAACTACACCAGACAAAAAACATCAAAAAGAAC	2550
92NG083.2	0.00	
92NG083.2	T	, 52aT
90CF056.1	GTT-GT	2569
		2 3 0 3
92RW009.6	G	2554
		2589
92NG003.1	A-T	2589
93BR029.4	-GC-GT-GTGGTC	2574
	G	
94CY032.3	G	2588
0.004.003 0		2551
96ZM651.8		
96ZM751.3	G	2562
94CY017.41	G-CTCTTTTA	2579
94IN476.104		2543
941N4/6.1U4	C	2543
93BR020.1	CCCCATTCCTTTGGATGGGGTATGAACTCCATCCTGATAAATGGACAGTGCAGCCTATAC	2610
	m	0.553
92NG083.2	-TGAA	2651
90CF056.1		2629
92RW009.6	-TAA	2614
92NG003.1	-TGAGGA	2649
93BR029.4	-T	2634
	-1	
94CY032.3	C	2648
0.0014.001 0		2611
96ZM651.8		
96ZM751.3	A	2622
94CY017.41	-TCA	2639
94IN476.104		2603
341N4 /0 . 1U4	CA	2003
0200000		0.000
93BR020.1	AATTGCCAGACAAGGACAGCTGGACTGTCAATGATATACAGAAGTTAGTAGGAAAACTAA	2670
92NG083.2	-GCAAGATAAG	2711
92NG083.2	-GCAAGATAAG	2711
92NG083.2 90CF056.1	-GCAGGAT	2711 2689
92NG083.2 90CF056.1 92RW009.6	-GC A AGAT	2711 2689 2674
92NG083.2 90CF056.1 92RW009.6	-GC A AGAT	2711 2689 2674
92NG083.2 90CF056.1 92RW009.6 92NG003.1	GC - A - AGAT - A G - G - G - G - G - G - G - G - G -	2711 2689 2674 2709
92NG083.2 90CF056.1 92RW009.6	GC - A - AGAT - A G - G - G - G - G - G - G - G - G -	2711 2689 2674
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	-GC - A - AGAT - A - G	2711 2689 2674 2709 2694
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	-GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2682
92NG083.2 90CF056.1 92RW0093.1 93BR029.4 94CY032.3 96ZM651.3 96ZM751.3 94CY017.41	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2682 2699
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2682
92NG083.2 90CF056.1 92RW0093.1 93BR029.4 94CY032.3 96ZM651.3 96ZM751.3 94CY017.41	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2682 2699
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663
92NG083.2 90CF056.1 92RW0093.1 93BR029.4 94CY032.3 96ZM651.3 96ZM751.3 94CY017.41	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663
92NG083.2 90CF056.1 92RW009.6 92RW003.1 93BR029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 94IN476.104	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663
92NG083.2 90CF056.1 92RW009.6 92RW003.1 93BR029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 94IN476.104	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663
92NG083 2 90CF056 1 92RW009 6 92NG003 1 93BR029 4 94CY032 3 962M651 8 962M751 3 94CY017 41 94IN476 104 93BR020 1 92NG083 2 90CF056 1	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2749
92NG083.2 90CF056.1 92RW009.6 92RW003.1 93BR029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 94IN476.104	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2749
92NGO83 2 90CF056.1 92RW009.6 92RW0003.6 93RR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 92RW009.6	GC - A - AGAT - A - G - G - G - G - G - A - AGAT - G - G - G - G - G - G - G - G - G -	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2749 2734
92NOO83.2 90CF056.1 92RW009.6 92RW0093.1 93BR029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 94IN476.104 93BR020.1 92BR0083.2 90CF056.1 92RW0093.1	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2749
92NOO83.2 90CF056.1 92RW009.6 92RW0093.1 93BR029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 94IN476.104 93BR020.1 92BR0083.2 90CF056.1 92RW0093.1	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2749 2734 2769
92NG083.2 90CF056.1 92RN009.6 92NG003.1 93RR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 92NG083.2 90CF056.1 92RN009.6 92RN009.6	GC - A - AGAT - A - G - G - G - G - G - A - A - G - G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2749 2734 2769 2754
92NOO83.2 90CF056.1 92RW009.6 92RW0093.1 93BR029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 94IN476.104 93BR020.1 92BR0083.2 90CF056.1 92RW0093.1	GC - A - AGAT - A - G - G - G - G - G - A - A - G - G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2749 2734 2769
92NG083.2 90CP056.1 92RW009.6 93BR029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 94IN476.104 93BR020.1 92RW009.6 92NG083.2 90CP056.1 92RW009.6 93BR020.1 93BR020.1 92RW009.6	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2734 2769 2754 2768
92NG083.2 90CP056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 93BR020.1 92NG083.2 90CP056.1 92NG093.2 92RW009.6 92NG093.1 93BR029.4 94CY032.3 962M651.8	GG - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2749 2734 2769 2754 2768 2731
92NG083.2 90CP056.1 92RW009.6 93BR029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 94IN476.104 93BR020.1 92RW009.6 92NG083.2 90CP056.1 92RW009.6 93BR020.1 93BR020.1 92RW009.6	GG - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2734 2769 2754 2768
92NG083.2 90CP056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZW651.8 94CW017.41 93BR020.1 92NG003.2 90CP056.1 92NG003.2 90CP056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZW651.8	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2771 2749 2734 2769 2734 2769 2734 2769 2734 2768 2731
92NG083.2 92K905.6.1 92RW009.6 92NG003.1 93ER029.4 94CY032.3 962W751.3 94CY017.41 93ER020.1 92NG083.2 92NG083.2 92NG09.6 92NG09.6 92NG09.6 92NG09.6 92NG09.6 92NG09.6 94CW751.3	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2749 2734 2769 2754 2768 2731
92NG083.2 92K905.6.1 92RW009.6 92NG003.1 93ER029.4 94CY032.3 962W751.3 94CY017.41 93ER020.1 92NG083.2 92NG083.2 92NG09.6 92NG09.6 92NG09.6 92NG09.6 92NG09.6 92NG09.6 94CW751.3	GG - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2771 2749 2734 2769 2754 2754 2754 2754 2755
92NG083.2 90CP056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZW651.8 94CW017.41 93BR020.1 92NG003.2 90CP056.1 92NG003.2 90CP056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZW651.8	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2771 2749 2734 2769 2734 2769 2734 2769 2734 2768 2731
92NG083.2 92K905.6.1 92RW009.6 92NG003.1 93ER029.4 94CY032.3 962W751.3 94CY017.41 93ER020.1 92NG083.2 92NG083.2 92NG09.6 92NG09.6 92NG09.6 92NG09.6 92NG09.6 92NG09.6 94CW751.3	GG - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2771 2749 2734 2769 2754 2754 2754 2754 2755
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 962W751.3 94CW017.41 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 94W76.104	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2694 2708 2691 2663 2770 2749 2734 2769 2754 2769 2754 2769 2754 2769 2754 2769 2754 2769 2754 2769 2754 2769 2754 2769 2754 2769 2754 2769 2754 2769 2754 2769
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93ER029.4 94CY032.3 962M651.8 962M751.7.41 93ER020.1 93ER020.1 93ER020.1 93ER020.1 93ER020.3 93ER020.1 93ER020.4 94CW033.3 94CW017.4.1 93ER020.4 94CW033.3 94CW017.4.1	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2694 2708 2692 2699 2663 2730 2771 2749 2734 2769 2754 2768 2731 2741 2758 2723 2723
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93ER029.4 94CY032.3 962M651.8 962M751.7.41 93ER020.1 93ER020.1 93ER020.1 93ER020.1 93ER020.3 93ER020.1 93ER020.4 94CW033.3 94CW017.4.1 93ER020.4 94CW033.3 94CW017.4.1	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2694 2708 2692 2699 2663 2730 2771 2749 2734 2769 2754 2768 2731 2741 2758 2723 2723
92NG083.2 92KG065.1 92RW009.6 92NG003.1 93RR029.4 962M651.8 962M651.8 962M751.3 94CY017.4.1 93BR029.4 92RW008.3.2 92RW008.6 92RW009.6 93RW009.6	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2882 2782 2663 2771 2749 2754 2768 2754 2768 2731 2741 2759 2723 2723
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93ER029.4 94CY032.3 962M651.8 962M751.7.41 93ER020.1 93ER020.1 93ER020.1 93ER020.1 93ER020.3 93ER020.1 93ER020.4 94CW033.3 94CW017.4.1 93ER020.4 94CW033.3 94CW017.4.1	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2882 2782 2663 2771 2749 2754 2768 2754 2768 2731 2741 2759 2723 2723
92NG083.2 92NG009.6 92NG003.1 93ER029.4 94CY032.3 962MF51.3 94CY017.41 93ER020.1 93ER020.1 92NG003.1 92NG003.1 92R0009.6 92NG003.1 94CY032.3 962MF51.8 94CY032.3 962MF51.8 962MF51.1 93ER020.1 94CY032.3 962MF51.1 94CY032.3	GC - A - AGAT - A - G - G - G - G - G - A - A - G - G	2711 2689 2694 2709 2694 2708 2694 2708 2663 2730 2771 2749 2734 2768 2731 2741 2741 2752 2723 2723 2790 2831 2809
92NG083.2 92KG065.1 92RW009.6 92NG003.1 93RR029.4 962M651.8 962M651.8 962M751.3 94CY017.4.1 93BR029.4 92RW008.3.2 92RW008.6 92RW009.6 93RW009.6	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2882 2782 2663 2771 2749 2754 2768 2754 2768 2731 2741 2759 2723 2723
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93RR029.4 93RR029.4 94CY017.4.1 94IN476.104 93BR020.1 92NG083.2 90CF056.1 93BR020.1 93BR020.1 93BR020.1 94CY017.41 93BR029.4 94CY017.41 94CY017.41 94CY017.41 94CY017.41 94CY017.41	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2694 2708 2671 2889 2663 2730 2771 2749 2734 2769 2734 2759 2754 2759 2723 2730 2730 2731 2741 2759 2723
92NG083.2 92RW009.6 92NG003.1 93ER029.4 94CY032.3 962MF51.8 94CY017.41 93ER020.1 93ER020.1 93ER020.1 93ER020.1 93ER020.1 94EY032.3 94EY017.4 94EY032.3 962MF51.8 962MF51.8	GC - A - AGAT - A - G - G - G - G - G - A - A - G - G	2711 2689 2689 2674 2709 2694 2708 2671 2682 2669 2663 2771 2749 2734 2754 2754 2754 2754 2752 2751 2751 2751 2751 2751 2759 2759 2759 2759 2759 2759 2759 2759
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93RR029.4 93RR029.4 94CY017.4.1 94IN476.104 93BR020.1 92NG083.2 90CF056.1 93BR020.1 93BR020.1 93BR020.1 94CY017.41 93BR029.4 94CY017.41 94CY017.41 94CY017.41 94CY017.41 94CY017.41	GC - A - AGAT - A - G - G - G - G - G - A - A - G - G	2711 2689 2674 2709 2694 2708 2694 2708 2671 2889 2663 2730 2771 2749 2734 2769 2734 2759 2754 2759 2723 2730 2730 2731 2741 2759 2723
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93ER029.4 94CX033.3 96EZW751.3 94CY071.41 94IN476.104 93BR020.1 92RW009.3 92RW009.3 92RW009.3 92RW009.3 93ER029.4 94CY017.41 93ER029.4 94CY017.41 9	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2682 2692 2663 2773 2749 2749 2749 2749 2749 2749 2749 2749
92NG083.2 90CP056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 962M651.8 94CY017.41 93BR020.1 92RW009.6 92NG003.1 92RW009.6 92NG003.1 93BR020.1 94CY032.3 94CY017.41 94IW476.104 94IW476.104 94IW476.104 94IW476.104	GC - A - AGAT - A - G - G - C - A - AGAT - G - G - G - G - G - G - G - G - G -	2711 2689 2689 2674 2709 2694 2708 2671 2682 2699 2663 2771 2749 2734 2754 2754 2754 2754 2759 2752 2790 2831 2809 2794 2829 2814 2828
92NG083.2 90CP056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 962M651.8 94CY017.41 93BR020.1 92RW009.6 92NG003.1 92RW009.6 92NG003.1 93BR020.1 94CY032.3 94CY017.41 94IW476.104 94IW476.104 94IW476.104 94IW476.104	GC - A - AGAT - A - G - G - C - A - AGAT - G - G - G - G - G - G - G - G - G -	2711 2689 2689 2674 2709 2694 2708 2671 2682 2699 2663 2771 2749 2734 2754 2754 2754 2754 2759 2752 2790 2831 2809 2794 2829 2814 2828
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 962ZW651.8 94CY017.41 94 IN4 76.104 93BR020.1 92RW009.6 92RW009.6 92RW009.6 93RW003.1 94CY017.41 94 IN4 76.104	GC - A - AGAT - A - G G	2719 2689 2674 2709 2694 2708 2671 2682 2693 2773 2774 2736 2754 2758 2758 2758 2758 2758 2758 2758 2758
92NG083.2 90CP056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 962M651.8 94CY017.41 93BR020.1 92RW009.6 92NG003.1 92RW009.6 92NG003.1 93BR020.1 94CY032.3 94CY017.41 94IW476.104 94IW476.104 94IW476.104 94IW476.104	GC - A - AGAT - A - G	2711 2689 2689 2674 2709 2694 2708 2671 2682 2699 2663 2771 2749 2734 2754 2754 2754 2754 2759 2752 2790 2831 2809 2794 2829 2814 2828
92NG083.2 92NG005.6 92NG003.1 92NG003.1 93BR023.4 962M651.8 962M751.3 94CY017.41 93BR020.1 93BR020.1 93BR020.1 92RW009.6 92NG003.1 93BR029.4 94CY017.4 93BR029.4 94CY017.4 93BR029.4 94CY017.4 93BR029.4 94CY017.4 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.3 94CW017.4 93BR020.3 94CW017.4 93BR020.3 93BR020.3 94CW017.4 93BR020.3	GC - A - AGAT - A - G	2711 2689 2674 2709 2694 2708 2671 2682 2693 2731 2749 2734 2769 2734 2769 2731 2741 2759 2723 2792 2792 2793 2794 2893 2994 2891 2894 2894 2994 2894 2894 2894 2894 2994 29
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 962ZW651.8 94CY017.41 94 IN4 76.104 93BR020.1 92RW009.6 92RW009.6 92RW009.6 93RW003.1 94CY017.41 94 IN4 76.104	GC - A - AGAT - A - G G	2719 2689 2674 2709 2694 2708 2671 2682 2693 2773 2774 2736 2754 2758 2758 2758 2758 2758 2758 2758 2758

Fig. 13H

93BR020.1	AGAATAGGGAGATTCTAAAAGAACCAGTACATGGGGCATATTATGACCCGTCAAAAGACT	2850
92NG083.2	The state of the s	2891
	CAA-TCCAA-	
90CF056.1	-ACTA	2869
92RW009.6	-ACATA-TA	2854
92NG003.1	CAA-TCCAA-	2889
93BR029.4	-ACC	2874
94CY032.3	C	2888
96ZM651.8	C-AAT	2851
96ZM751.3	GCAA-TA-TA	.2861
94CY017.41	CATACCTTCA	.7.2879
	Acc 1	
94 IN476.104	CA	2843
		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
93BR020.1	TAATAGCAGAAATACAGAAACAAGGGCAAGGGCAATGGACATATCAAATTTATCAAGAGC	2910
92NG083.2	GG	. 2951
90CF056.1	GG	[∵] 2929
		2323
92RW009.6	TCA-	2914.
92NG003.1	TGC-AC	2949
93BR029.4	C	2934
94CY032.3	AA	2948
96ZM651.8	$\hbox{-G}T$	2911
96ZM751.3		2921
94CY017.41	AC	2939
94IN476.104	A-	2903
312111701201	. The	2505
93BR020.1	CATTTAAAAATCTAAAAACAGGAAAGTATGCAAAAATGAGGTCTGCCCACACTAATGATG	2970
92NG083.2	ACA	3011
	AcAcAcAc	
90CF056.1	A	2989
92RW009.6	C	2974
92NG003.1	36 6	3009
	ACG	
93BR029.4	AGGGG	2994
94CY032.3	CAG	3008
96ZM651.8	C	2971
96ZM751.3	CA	2981
94CY017.41	-CGA	2999
	-c	
94IN476.104	C	2963
93BR020.1	TAAAACAGTTAACAGAAGCAGTGCAAAAGATATCTCTAGAAAGCATAGTAATATGGGGCA	3030
92NG083.2	ACA-	3071
90CF056.1	AA	3049
92RW009.6	A-	3034
92NG003.1	AG-CACGA-	3069
93BR029.4	ACAAAAAA	3054
94CY032.3	-T-GAA-	3068
94CY032.3 96ZM651.8	-T-GAAAA	3068
96ZM651.8	AG-CGAAAA	3068 3031
96ZM651.8 96ZM751.3	AGGGAG-CA-GAA	3068 3031 3041
96ZM651.8 96ZM751.3 94CY017.41	AGGGAG-CA-GAA	3068 3031
96ZM651.8 96ZM751.3 94CY017.41		3068 3031 3041 3059
96ZM651.8 96ZM751.3	AGGGAG-CA-GAA	3068 3031 3041
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		3068 3031 3041 3059 3022
96ZM651.8 96ZM751.3 94CY017.41		3068 3031 3041 3059
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	G - A - G - C - G - G - A - G - G - G - A - G - G - G	3068 3031 3041 3059 3022
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	G - A - G - C - G - G - A - G - G - G - A - G - G - G	3068 3031 3041 3059 3022 3090 3131
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	G A G-CA-G A G-GA-G A-G-CA-G A G-GA-G A-G-CA-G A G-CA-G A-G-CA-G A G-CA-G A-G-CA-A AGCTCCTAAGTTTAGACTACCCATATTAAAGAGACATGGGATACATGGTGGACAGAGT T-A-A-T-CG-AA-GC-CG-CG-CG-CG-CG-CG-CG-CG-CG-CG-CG-CG-	3068 3031 3041 3059 3022 3090 3131 3109
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	G A G-CA-G A G-GA-G A-G-CA-G A G-GA-G A-G-CA-G A G-CA-G A-G-CA-G A G-CA-G A-G-CA-A AGCTCCTAAGTTTAGACTACCCATATTAAAGAGACATGGGATACATGGTGGACAGAGT T-A-A-T-CG-AA-GC-CG-CG-CG-CG-CG-CG-CG-CG-CG-CG-CG-CG-	3068 3031 3041 3059 3022 3090 3131
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6		3068 3031 3041 3059 3022 3090 3131 3109 3094
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG03.1	G A G CA G A G CA A A G CA G A A A CA CA CA CA A A A	3068 3031 3041 3059 3022 3090 3131 3109 3094 3129
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	G A G CA G A G CA A A G CA G A A A CA CA CA CA A A A	3068 3031 3041 3059 3022 3090 3131 3109 3094 3129 3114
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG03.1	G A G CA G A G CA A A G CA G A A A CA CA CA CA A A A	3068 3031 3041 3059 3022 3090 3131 3109 3094 3129 3114
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3	G A G CA G A G CA A A CA A G A A A CA A G A A A A	3068 3031 3041 3059 3022 3090 3131 3109 3094 3129 3114 3128
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		3068 3031 3041 3059 3022 3090 3131 3109 3094 3129 3114 3128 3091
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		3068 3031 3041 3059 3022 3090 3131 3109 3094 3129 3114 3128
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	G A G-CA-G A G-GA-G A G-CA-G A A-A-CA-G A-A-CA-G A G-CA-G A-A-CA-G A AGCTCCTAAGTTTAGAACTACCCATATTAAAAGAGACATGGGATACATGGTGGACAGAGT T-A-A-T-CG A-A-G-C A-T-A-T-CCA-A-G-C-A-A-C-C-A-A-T-CA-A-G-CA-A-A-C-C-A-A-C-T-A-C-CA-A-A-C-C-A-C-T-A-A-C-CA-A-A-C-C-A-C-T-A-A-G-C-C-A-C-C-A-C-C-A-C-C-C-A-C-C-C-A-C-C-C-A-C	3068 3031 3041 3059 3022 3090 3131 3109 3094 3129 3114 3128 3091 3101
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		3068 3031 3041 3059 3022 3090 3131 3109 3094 3128 3091 3101 3101 3119
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	G A G-CA-G A G-GA-G A G-CA-G A A A - A - CA-G A G-CA-G A G-CA-G A A-G-CA-G A A A-G-CA-G A A AGCTCCTAAGTTTAGAACTACCCATATTAAAAGAGACATGGGATACATGGTGGACAGAGT T A A T CG A AGC A T C A A G-C AGT A T CAA A G-C AGT A A T CAA A G-C AGT A A T CAA A G-C AGT A A C CAA A CC AGT A A C CAA A G-C T A A C CAA A G-C T A C CAA A G-C T A C CAA A CC T A C CAA C C A	3068 3031 3041 3059 3022 3090 3131 3109 3094 3129 3114 3128 3091 3101
96ZM651.8 96ZM751.3 94CY017.41 94IN476.10 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	- G - A - G - C - G - G - A - G - G - G - A - G - G - G	3068 3031 3041 3059 3022 3090 3131 3109 3094 3128 3091 3101 3101 3119
96ZM651.8 96ZM751.3 94CY017.41 94IN476.10 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	- G - A - G - C - G - G - A - G - G - G - A - G - G - G	3068 3031 3041 3059 3022 3090 3131 3109 3094 3128 3091 3114 3128 3091 3119 3082
96ZM551.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 96ZM551.8 96ZM551.8 96ZM551.3 94CY017.41 94IN476.104	G A G-CA-G-CA-A-A-G-CA-G-CA-A-A-G-CA-G-G-A-A-A-A	3068 3031 3041 3059 3022 3090 3131 3109 3129 3114 3129 3114 3128 3091 3101 3101 3101 3101 3101 3105
96ZM51.3 96ZM751.3 94IN476.104 94IN476.104 93BR020.1 92NG083.2 90CP056.1 92NG003.1 93BR029.4 94CY032.3 96ZM551.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	- G - A - G - C - G - A - A - G - C - G - A - A - G - C - G - A - A - A - A - A - A - G - C - G - A - A - A - A - A - A - G - A - A	3068 3031 3041 3059 3022 3090 3131 3109 3129 3114 3128 3091 3119 3082
96ZM551.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 96ZM551.8 96ZM551.8 96ZM551.3 94CY017.41 94IN476.104	- G - A - G - C - G - A - A - G - C - G - A - A - G - C - G - A - A - A - A - A - A - G - C - G - A - A - A - A - A - A - G - A - A	3068 3031 3041 3059 3022 3090 3131 3109 3129 3114 3129 3114 3128 3091 3101 3101 3101 3101 3101 3105
96ZM51.8 96ZM751.3 94IN476.104 93BR020.1 93BR020.1 90CF056.1 92RW009.6 94CY032.3 96ZM51.8 96ZM751.3 94CY017.41 93BR020.4 94IN476.104		3068 3031 3041 3059 3022 3090 3131 3109 3091 3114 3128 3091 3101 3119 3082 3150 3191 3169
96ZM51.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93CP056.1 92RW009.6 92NG003.1 93BR020.4 94ZW651.8 94ZW651.8 94ZW651.8 94ZW651.8 94ZW651.8 94ZW651.8 94ZW651.8 94ZW651.8 94ZW651.8 94ZW651.8 94ZW651.8 94ZW651.8 94ZW651.8		3068 3031 3041 3052 3022 3090 3131 3109 3114 3128 3091 3119 3082 3191 3119 3150 3150
96ZM51.8 96ZM751.3 94CY017.41 93BR020.1 93BR020.1 92NG0083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM551.3 94CY017.41 93BR020.1 93BR020.1 93BR020.1 92NG0083.2 90CF056.1 92NG003.3		3068 3031 3041 3059 3022 3090 3131 3109 3114 3129 3091 3101 3101 3119 3082 3150 3150 3151 3169 3154
96ZM51.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93CP056.1 92RW009.6 92NG003.1 93BR020.4 94ZW651.8 94ZW651.8 94ZW651.8 94ZW651.8 94ZW651.8 94ZW651.8 94ZW651.8 94ZW651.8 94ZW651.8 94ZW651.8 94ZW651.8 94ZW651.8 94ZW651.8		3068 3031 3041 3052 3022 3090 3131 3109 3114 3128 3091 3119 3082 3191 3119 3150 3150
96ZM51.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93DR0083.2 90CF056.1 92RW009.6 94CY032.3 94CY032.3 94CY032.3 94CY017.4 93BR020.1 93BR020.1 93BR020.1 92RW009.6 92RW009.6		3068 3031 3041 3059 3022 3090 3131 3109 3094 3114 3128 3091 3119 3082 3191 3159 3154 3159 3159
96ZM51.8 96ZM751.3 94CN7017.41 93IR0082.2 93IR0082.2 93IR0082.2 93IR0083.5 93IR0083.1 93IR0093.6 93IR0093.6 94CY032.3 96ZM651.8 96ZM551.8 96ZM51.3 94CY017.41 93IR0083.2 96ZM656.1 93IR0083.1 93IR0083.1 93IR0083.1 93IR0083.1		3068 3031 3041 3059 3022 3090 3131 3109 3094 3129 3101 3101 3101 3119 3082 3150 3191 3169 3159 3159 3159
96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 93BR020.1 92RW0083.2 90CF056.1 93BR029.4 94CY032.3 94CY037.41 94GR063.2 90CF056.10 93BR020.1		3068 3031 3041 3059 3022 3090 3131 3109 3094 3114 3128 3091 3119 3082 3159 3159 3159 3159 3159 3159 3159 3159
96ZM51.8 96ZM751.3 94CN7017.41 93IR0082.2 93IR0082.2 93IR0082.2 93IR0083.5 93IR0083.1 93IR0093.6 93IR0093.6 94CY032.3 96ZM651.8 96ZM551.8 96ZM51.3 94CY017.41 93IR0083.2 96ZM656.1 93IR0083.1 93IR0083.1 93IR0083.1 93IR0083.1		3068 3031 3041 3059 3022 3090 3131 3109 3094 3114 3128 3091 3119 3082 3159 3159 3159 3159 3159 3159 3159 3159
96ZM51.8 96ZM751.3 94CY017.41 93BR020.1 93BR020.1 93BR020.1 93CF055.1 93CR005.1 93CR003.1 93ER003.1 93ER003.1 94CY017.4 94CY032.3 94CY017.4 94ER051.8 95ZM751.3 95ZM608.1 93BR029.4 94CY032.3 95ZM608.1		3068 3031 3041 3059 3022 3090 31310 3109 3094 3124 3128 3091 3119 3150 3151 3154 3189 3174 3188 3151
96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 93BR020.1 92RW0083.2 90CF056.1 93BR029.4 94CY032.3 94CY037.41 94GR063.2 90CF056.10 93BR020.1		3068 3031 3041 3059 3022 3090 3131 3109 3094 3114 3128 3091 3119 3082 3159 3159 3159 3159 3159 3159 3159 3159

Fig. 131

93BR020.1	TATGGTATCAGTTAGAAACAGAGCCCATAGTAGGAGCAGAAACCTTCTATGTAGATGGGG	3210
92NG083.2	T-A	3251
90CF056.1	T-AA	3229
92RW009.6	GAA	3214
92NG003.1	T-A	3249
93BR029.4	T	3234
94CY032.3	C	3248
96ZM651.8	CC-G-G-AAA	3211
96ZM751.3	T-AAAA	3221
94CY017.41	CC	3239
94IN476.104	T	3202
93BR020.1	CATCTAATAGAGAGACCAAAAAAGGAAAAGCAGGATATGTTACTGACAGAGGAAGACAAA	3270
92NG083.2	GAATTC	3311
90CF056.1	GAGAG	3289
92RW009.6	GC-GATTG	3274
92NG003.1	GAATTG	3309
93BR029.4	GGATTT	3294
94CY032.3	GTC	3308
96ZM651.8	G-CGATTT	3271
96ZM751.3	G-CGATT	3281
94CY017.41	GCTGCC	3299
94IN476.104	GGATGT	3262
93BR020.1	AAGCGGTCTCCCTAACTGAGACTACAAATCAGAAGGCTGAGTTACAAGCAATTCAGTTAG	3330
92NG083.2	ATTA-TAAAAC	3371
90CF056.1	TT	3349
92RW009.6	ATTTTAAAAC	3334
92NG003.1	- ATTA - A - A - CAG - A - A A - AA A C	3369
93BR029.4	TTCTC	3354
94CY032.3	TT	3368
96ZM651.8	ATTTA-T	3331
	ATTTA-TAAAAA-	3341
96ZM751.3		3359
94CY017.41	ATT	3322
94 IN476.104	ATTTTTAA	3322
0000000	CTTTACAGGATTCAGGATCAGAAGTAAACATAGTAACAGACTCACAGTATGCATTAGGAA	3390
93BR020.1		3431
92NG083.2	GCAC	3409
90CF056.1	GAC	3394
92RW009.6		3429
92NG003.1	G	3429
93BR029.4	GAA	
94CY032.3	G <u>A</u>	3428
96ZM651.8	GA	3391
96ZM751.3	G	3401
94CY017.41		3419
94 IN 476 . 104	G-AAA	3382
93BR020.1	TCATTCAAGCACAACCAGATAAGAGTGAATCAGAGTTAGTCAATCAA	3450
92NG083.2	AGC	3491
90CF056.1		3469
92RW009.6	GCCGCGCGCGCAG-	3454
92NG003.1	AGC	3489
93BR029.4	G-	3474
94CY032.3	T	3488
96ZM651.8		3451
96ZM751.3	C	3461
94CY017.41	A-GAA	3479
94 IN 476 . 104		3442
93BR020.1	TAATAAAAAGGAAAAGGTCTACCTGTCATGGGTACCAGCACAAAGGGATTGGAGGAA	3510
92NG083.2		3551
90CF056.1	AA	3529
92RW009.6	TA	3514
92NG003.1	A	3549
93BR029.4	AA	3534
94CY032.3	CGGC	3548
96ZM651.8	TAT-	3511
96ZM751.3	-GAAA	3521
94CY017.41	G	3539
94 IN 476 . 10		3502

Fig. 13J

93BR020.1	ATGAACAAGTAGATAAATTAGTCAGTGCTGGAATCAGGAAAGTACTGTTTCTAGATGGGA	3570
92NG083.2	T-AT-GC-	3611
90CF056.1		3589
92RW009.6	GGAAAAA-	3574
92NG003.1	A	3609
93BR029.4	AAAAA	3594
94CY032.3	AGGATAAGGATA	3608
96ZM651.8	GACAAGA	35,7,1
96ZM751.3		3581
94CY017.41		3599
94IN476.104	T	3562
93BR020.1	TAGATAAGGCACAAGAGGAACATGAAAAATATCACAACAATTGGAGAGCAATGGCTAGTG	3630
92NG083.2	ACA	3671
90CF056.1		3649
92RW009.6	G	3634
92NG003.1	CAT	3669
93BR029.4	TT	3654
94CY032.3	TATCT	3668
96ZM651.8	CTAG	3631
96ZM751.3	G	3641
94CY017.41	G	3659
94IN476.104	ATATA	3622
93BR020.1	ATTTTAATATACCAGCTGTAGTAGCAAAAGAAATAGTAGCTAGC	3690
92NG083.2	G-C-GCA-	3731
90CF056.1	CC-A	3709
92RW009.6	C-GC-AG	3694
92NG003.1	GC-GC-A	3729
93BR029.4	-CCC	3714
94CY032.3	A	3728
96ZM651.8	-AT	3691
96ZM751.3	-GC-GC-CA	3701
94CY017.41	-CCC	3719
94IN476.104	-GC-GC-CA	3682
93BR020.1	TAAAAGGGGAAGCCATGCATGGACAAGTAGATTGTAGCCCAGGGATATGGCAATTAGATT	3750
92NG083.2	AAAAA	3791
90CF056.1	AA	3769
92RW009.6	CC	3754
92NG003.1		3789
93BR029.4	A	3774
94CY032.3		
96ZM651.8		
	AC-	3788
	AC	3788 3751
96ZM751.3	AC	3788 3751 3761
96ZM751.3 94CY017.41	ACTAC	3788 3751 3761 3779
96ZM751.3	AC	3788 3751 3761
96ZM751.3 94CY017.41 94IN476.104 93BR020.1	A	3788 3751 3761 3779 3742
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	A	3788 3751 3761 3779 3742 3810 3851
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	A	3788 3751 3761 3779 3742 3810 3851 3829
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	A	3788 3751 3761 3779 3742 3810 3851 3829 3814
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	A	3788 3751 3761 3779 3742 3810 3851 3829 3814 3849
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	A	3788 3751 3761 3779 3742 3810 3851 3829 3814 3849 3834
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	A	3788 3751 3761 3779 3742 3810 3851 3829 3814 3849 3834 3848
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92DR0083.2 90CF056.1 92DR009.6 92DR003.1 93BR029.4 94CY032.3 96ZM651.8	A	3788 3751 3761 3779 3742 3810 3851 3829 3814 3849 3834 3834 3834 3811
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	A	3788 3751 3761 3779 3742 3810 3851 3829 3814 3848 3814 3848 3811 3821
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92BR083.2 90CF056.1 92RN009.6 92NG003.1 93BR029.4 94CY03.2.3 96ZM651.8 96ZM751.3	A	3788 3751 3761 3779 3742 3810 3851 3829 3814 3849 3848 3811 3839
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	A	3788 3751 3761 3779 3742 3810 3851 3829 3814 3848 3814 3848 3811 3821
962M751.3 94CY017.41 94IN476.104 93BR020.1 92BR0083.2 90CP056.1 92RR009.6 92NG003.1 93BR029.4 94CY032.3 962M651.8 962ZM751.3 94CY017.41 94IN476.104	A	3788 3751 3779 3742 3810 3851 3829 3814 3849 3814 3848 3811 3839 3802
962M751.3 94CY017.41 94IN476.104 93BR020.3.2 90CF056.1 92BR0003.1 93BR0209.4 94CY032.3 962M651.8 962M751.3 94CY017.41 93BR020.1	A	3788 3751 3761 3779 3742 3810 3829 3814 3849 3834 3811 3821 3821 3839 3802
962M751.3 94CY017.41 94IN476.104 93BR020.1 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1	A	3788 3751 3761 3779 3742 3810 3851 3829 3814 3849 3811 3821 3839 3802 3870 3911
962M751.3 94CY017.41 94IN476.104 93BR020.1 92N0083.2 90CP056.1 92R0009.6 92N3003.1 93BR029.4 94CY032.3 962M751.3 94CY017.41 93BR020.1 92N3BR020.1 92N3BR020.1	A	3788 3751 3761 3779 3742 3810 3851 3829 3814 3849 3811 3821 3839 3802
962M751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CP056.1 92RW009.6 92NG003.1 94CY012.3 94CY012.3 94CY017.41 94IN476.104 93BR020.1 94RW017.41 94IN476.104 93BR020.1 93BR020.1	A	3788 3751 3761 3779 3742 3810 3851 3829 3814 3849 3811 3821 3839 3802 3870 3911
962M751.3 94CY017.41 94IN476.104 93BR020.1 92N0083.2 90CP056.1 92R0009.6 92N3003.1 93BR029.4 94CY032.3 962M751.3 94CY017.41 93BR020.1 92N3BR020.1 92N3BR020.1	A	3788 3751 3761 3772 3810 3851 3824 3834 3848 3811 3821 3839 3802 3870 3911 3887
962M751.3 94 IN476.104 93 BR020.1 92 NG083.2 90 CP056.1 93 BR029.4 94 CY032.3 96 ZP651.8 96 ZP651.8 94 CY032.3 94 CY032.3 94 CY032.3 96 ZP651.8 94 ZP651.8 95 ZP656.1 92 NG083.2 90 CP056.1	A	3788 3751 3761 3779 3742 3810 3851 3829 3814 3848 3811 3821 3839 3802 3870 3891 3893
962M751.3 94CY017.41 94IN476.104 93BR020.1 92RW009.6 92RW009.6 92RW009.6 92RW009.6 92RW009.6 94CY032.3 94CY017.41 94IN476.104 93BR020.1 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1	A	3788 3751 3761 37742 3810 3851 3829 3834 3848 3811 3821 3802 3870 3911 3889 3874 3909 3874 3909
962M751.3 94IN476.104 93BR020.1 92NG083.2 90CP056.1 92NG009.3 93BR029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 92NG083.2 90CP056.1 92RW009.6	A	3788 3751 3761 37742 3810 3851 3824 3834 3848 3811 3821 3839 3839 3811 3839 3911 3889
962M751.3 94TW17.41	A	3788 3751 3779 3742 3810 3851 3829 3814 3848 3818 3811 3839 3802 3870 3911 3889 3871 3894 3994 3994 3994

Fig. 13K

93BR020.1	CAGGAAGATGGCCAGTAAAAACAATACATACAGACAATGGCACCAATTTCACCAGTGCCA	3930
92NG083.2	-A-C	3949
90CF056.1 92RW009.6	A-C	3934
92NG003.1	GTC	3969
93BR029.4		3954
94CY032.3	CCTG	3968
96ZM651.8	T-GT-G	3931
96ZM751.3		3941
94CY017.41		3959- 3922
94IN476.104	T-GTTG	3322
93BR020.1	CGGTTAAGGCAGCTTGTTGGTGGGCAGGTATCCAGCAGGAATTTGGAATTCCTTACAACC	3990 ;
92NG083.2	-AA	4031
90CF056.1	AGT-	4009
92RW009.6	-AACT-	39.94
92NG003.1	-AA-GACT-	4029
93BR029.4	-ACCCT-	4028
94CY032.3 96ZM651.8	-A	3991
96ZM651.8	-AC	4001
94CY017.41	- A C T -	4019
94IN476.104	-A	3982
93BR020.1	CCCAAAGTCAAGGAGTAGTAGAATCTATGAATAAAGAGCTAAAGAAAATCATAGGACAGA	4050
92NG083.2	C	4091
90CF056.1	G	4054
92RW009.6	GGG	4089
92NG003.1 93BR029.4	AT	4074
93BR029.4 94CY032.3	GG	4088
96ZM651.8	-AGG	4051
96ZM751.3		4061
94CY017.41	ATGG	4079
94 IN476.104	AT	4042
93BR020.1	TAAGAGATCAAGCTGAACATCTTAAGACAGCAGTCCAAATGGCAGTATTCATTC	4110
93BR020.1 92NG083.2	-TGAGAG	4151
90CF056.1	AAAAAA	4129
92RW009.6	AA	4114
92NG003.1	-CG	4149
93BR029.4	GC	4134
94CY032.3	-CG	4148
96ZM651.8	AA	4121
96ZM751.3 94CY017.41	AA	4139
94 IN476 . 104	AGCAA	4102
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
93BR020.1	TTAAAAGAAAAGGGGGGATTGGGGGATACAGTGCAGGGGAAAGAACAATAGACATAATAG	4170
92NG083.2	TT	4211
90CF056.1	TT	4189 4174
92RW009.6	T	4209
92NG003.1 93BR029.4	T-GT-G	4194
94CY032.3		4208
96ZM651.8	TT	4171
96ZM751.3	T	4181
94CY017.41		4199
94 IN476.104		4162
	CAR CA CA CAMA CARA COMA CA CA AMERICA CA ARA A CARA ATTRIBUTA A ARA ATTRICCOCC	4230
93BR020.1	CAACAGACATACAAACTAGAGAATTACAAAAACAAATTATAAAAATTCAAAATTTCCGGG	4271
92NG083.2 90CF056.1	TT	4249
90CF056.1	AG	4234
92NG003.1	TTTT	4269
93BR029.4		4254
94CY032.3	TTAC	4268
96ZM651.8		4231
96ZM751.3		4241 4259
94CY017.41		4239
94IN476.104		

Fig. 13L

93BR020.1	TTTATTACAGGGACAGCAGAGACCCAGTTTGGAAAGGACCAGCAAAGCTACTCTGGAAAG	4290
92NG083.2	AAA	4331
90CF056.1	AC	4309
92RW009.6		4294
92NG003.1	-CA	4329
93BR029.4		4314
94CY032.3	GAA	4328
96ZM651.8		4291
96ZM751.3	CATACA	4301
94CY017.41	A-CTA	4319
94IN476.104		4282
		11
93BR020.1	GTGAAGGGGCAGTAGTCATACAAGACAATAGTGAAATAAAGGTAGTTCCAAGAAGAAAAG	4350
92NG083.2	AAAACAAA	4391
90CF056.1	AAG-G-	4369
92RW009.6	AAA	4354
92NG003.1	AAA	4389
93BR029.4		4374
94CY032.3	AAGCTCAA	4388
96ZM651.8	AGAGG	4351
96ZM751.3	A-AGG	4361
94CY017.41	AA	4379
94IN476.104		4342
341N470.104	r→ VIF start	1312
93BR020.1	CAAAGATCATTAGGGATTATGGAAACAGATGGCAGGTGATGATTGTGTGGCAGGTAGAC	4410
92NG083.2	CAAAGATCATTAGGATTATGGAAAACAGATGGCAGGTGATGATTGTGTGGCAGGTAGAC	4451
90CF056.1		4429
92RW009.6	7	4414
92NG003.1	TAA	4449
	T A A A A A A A A A A A A A A A A A A A	
93BR029.4	TG	4434
94CY032.3	A	
96ZM651.8	A	4411
96ZM751.3	A	
94CY017.41		4439
94IN476.104	AT	4402
	POL end AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAAAGAAA	
93BR020.1	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAAAGAAA	4470
92NG083.2		4511
90CF056.1	GGG	4489
92RW009.6	ATGPTC	4474
92NG003.1	TAAT	4509
93BR029.4		4494
94CY032.3	AGACCGC-TTG	4508
96ZM651.8	GACG	4471
96ZM751.3	ACAT	4481
94CY017.41	TT	4499
94IN476.104	POL end	4462
	POL end	
93BR020.1	GCCAAAGGATGGTTTTATAGACATCACTTTGAAAGCAGGCATCCAAAAATAAGTTCAGAA	4530
92NG083.2	TG-G	4571
90CF056.1	T-GGG	4549
92RW009.6	TGT-AAA	4534
92NG003.1	TG-ATG	4569
93BR029.4		4554
94CY032.3	A	4568
96ZM651.8	-TTGGG	4531
96ZM751.3	A-TGGTA	4541
94CY017.41	TTG-CAAAG	4559
94IN476.104		4522
341N476.104	T-GTGG	4522
93BR020.1	CM C C C C C C C C C C C C C C C C C C	4590
93BK020.1 92NG083.2	GTACACATCCCACTAGAGACAGCTGAATTAGTAATAACAACATACTGGGGGCTGCTTCCA	4631
90CF056.1		4609
92RW009.6	TTAAA	4594
92NG003.1		4629
93BR029.4	TA-A	4614
94CY032.3	T	4628
96ZM651.8	TTAAA	4591
96ZM751.3	AA	4601
94CY017.41	TACAT-	4619
94IN476.104		4582

Fig. 13M

92NG083.2	GAGAAAGAGAATGGCATCTGGGTCAGGGAGTCTCCATAGAATGGAGGCAGGGGAGGTAT	4650
90CF056.1	ACAAAA	4691
92RW009.6		4669
	G	4654
92NG003.1		4689
93BR029.4	TT	4674
94CY032.3	GCACTT	4688
96ZM651.8	GCACTT	4651
96ZM751.3	GATT-A-AAC	4661
94CY017.41	ACAAAC	4679
94IN476.104		4642
93BR020.1	AGAACACAAATAGACCCTGGCCTGGCAGACCAACTGATCCATATATTATTTTTGATTGT	4710
92NG083.2	T	4751
90CF056.1	CGC	4729
92RW009.6	-AGGC	4714
92NG003.1	CTAATCC-GCA-C	4749
93BR029.4	G	4734
94CY032.3	CG-GTAATGCC	4748
96ZM651.8	CG	4711
96ZM751.3	CGA	4721
94CY017.41	CATC-G	4739
94IN476.104	CGC	4702
93BR020.1	TTTTCAGAATCTGCCATAAGGAAAGCCATATTAGGACATAAAATTAGCCCTAGGTGTAAC	4770
92NG083.2	G-A	4811
90CF056.1	G-GT-GA	4789
92RW009.6	GC	4774
92NG003.1	G-AGT-GAG-A	4809
93BR029.4	G-T	4794
94CY032.3		4808
96ZM651.8	GC-T-GTTG	4771
96ZM751.3	GCACCT-GTT	4781
94CY017.41	G-A-T-GTG-A	4799
94IN476.104	GC-T-GTTTG-T	4762
93BR020.1	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATA	4830
92NG083.2	C-CTCG-AG	4871
90CF056.1	C	4849
92RW009.6		
		4834
92NG003.1	A	4834
93BR029.4	A	
93BR029.4 94CY032.3	A	4869
93BR029.4 94CY032.3 96ZM651.8	A	4869 4854
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		4869 4854 4868
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		4869 4854 4868 4831
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		4869 4854 4868 4831 4841
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		4869 4854 4868 4831 4841 4859 4822
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1		4869 4854 4868 4831 4841 4859
93BR029.4 94CY032.3 96ZM651.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2		4869 4854 4868 4831 4841 4859 4822 R start
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1		4869 4854 4868 4831 4841 4859 4822 R start 4890
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92BR020.1 92NG083.2 90CF056.1 92RW009.6		4869 4854 4868 4831 4841 4859 4822 R start 4890 4931
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92RG083.2 90CF056.1 92RW009.6 92NG003.1		4869 4854 4868 4831 4841 4859 4822 R start 4890 4931 4909
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4		4869 4854 4868 4831 4841 4859 4822 R start 4890 4931 4909 4894
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92RW009.4 94CY032.3		4869 4854 4868 4831 4859 4822 R start 4890 4931 4909 4929
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 92CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		4869 4854 4868 4831 4859 4822 R start 4890 4931 4909 4894 4929 4914
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92RW009.6 92RW009.6 92RW009.6 94CY032.3 96ZM651.8		4869 4854 48631 48631 4859 4822 R start 4890 4894 4909 4894 4929
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92R0003.2 90CF056.1 92R0009.6 92NG003.3 94CY017.3 94CY017.3 94CY017.4		4869 4854 48631 4841 4859 4859 4890 4931 4909 4909 4914 4929 4914 4929 4918 4891
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92RW009.6 92RW009.6 92RW009.6 94CY032.3 96ZM651.8		4869 4854 4861 4841 4859 4872 8 start 4890 4931 4909 4894 4914 4929 4914 4929 4914
93BR029.4 94CY032.3 962M751.3 94CY017.41 94IN476.104 93BR020.1 92N0083.2 90CY056.1 92R0003.1 93BR029.4 94CY012.3 962M651.8 962M651.8		4869 4854 4868 4831 4841 4859 4852 R start 4890 4894 4929 4894 4928 4891 4901 4901 4919 4882
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92R009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 94CY017.41 94IN476.104	TC A T-A C-A G- T-CT G G G G G- T-CG G G G G- T-CG G G G G G- T-CG G G G G G- T-CG G G G G G G G G G G G G G G G G G G	4869 4854 4864 4831 4841 4852 4890 4931 4994 4994 4929 4894 4929 4891 4901 4901
93BB029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 94IN476.104 93BB020.1 92R0083.2 90CP056.1 92R009.6 92R009.6 92R009.6 93BR029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 94IN476.104 93BR020.1	TC A T-A C-A G- T G G G G G G G G G G G G G G G G G G	4869 4854 4868 4831 4841 4859 4822 R start 4931 4909 4914 4929 4914 4928 4891 4901 4919 4882
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.6 94CY032.3 96ZM651.8 94CY032.3 96ZM651.8 94CY017.41 93BR029.4 94CY032.3		4869 4854 4868 4831 4841 4859 4852 R start 4890 4894 4929 4894 4928 4891 4901 4901 4919 4882
93BR029.4 96ZY032.3 96ZM751.3 96ZM751.3 94CY017.411 93BR020.1 93BR020.1 92K0009.6 92K0009.6 92K0003.2 92K0009.6 94ZM613.8 96ZM751.3 96ZM751.3 96ZM751.3 96ZM751.3 96ZM751.3		4869 4854 4868 4831 4849 4822 R start 4909 4894 4904 4904 4901 4901 4901 4901 4901
93BR029.4 94CY032.3 962M651.8 962M751.3 94CY017.411 93BR020.1 92R0082.2 90CY056.1 92R0003.1 94CY017.3 94CY017.3 94CY017.3 93BR029.4 94CY017.3 94CY017.4		4869 4868 4831 4849 4822 R start 4931 4931 4994 4924 4924 4928 4891 4919 4882 4950 4969
93BR029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 93BR020.1 92R0098.2 90CP056.1 92R009.6		4869 4864 4864 4831 4841 4859 4822 8 start 4909 4894 4901 4929 4914 4901 4901 4901 4901 4901 4901 490
93BR029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 93BR020.1 92RW088.2 90CY056.1 92RW099.6 92RW099.4 94CY032.3 962M651.8 962M751.3 94CY017.41 93BR029.4 94CY032.3 96CW656.1	TC A T-A C-A G-A G-A G-A G-A G-A G-A G-A G-A G-A G	4869 4868 4831 4841 4859 4872 4891 4909 4894 4914 4929 4914 4919 4882 4991 4919 4882 4991 4919 4882
93BR029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 93BR020.1 92R0098.2 90CF056.1 92R0003.1 94CW032.3 94CY017.41 93BR020.1 93BR020.1 93BR020.1 94CW032.3 94CY017.41 93BR020.1 93BR020.1 93BR020.1		4869 4854 4854 4851 4859 44852 8 start 4909 4914 4901 4901 4891 4901 4882 4901 4901 4882 4901 4901 4894 4901 4901 4894 4901 4901 4894 4901 4901 4894 4901 4901 4894 4901 4901 4894 4894 4894 4901 4894 4894 4901 4894 4901 4894 4901 4894 4901 4894 4894 4994 4994 4994 4994 4994 499
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.411 93BR020.1 92RW098.2 92RW099.6		4869 4854 4831 4842 4859 4852 3 start 4909 4914 4929 4914 4929 4914 4919 4882 4891 4919 4891 4969 4891 4969 4974 4988
93BR029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 93BR020.1 92R0098.2 90CF056.1 92R0003.1 94CW032.3 94CY017.41 93BR020.1 93BR020.1 93BR020.1 94CW032.3 94CY017.41 93BR020.1 93BR020.1 93BR020.1	TC A T-A C-A G-A G-A G-A G-A G-A G-A G-A G-A G-A G	4869 4868 4831 4852 4852 8 start 4890 4931 4929 4921 4928 4991 4919 4919 4919 4919 4919 4919 491

Fig. 13N

93BR020.1	TTTTAGAGGAGCTTAAGAATGAAGCTGTTAGACATTTTCCTAGGCCATGGCTCCATAGCT	5010
92NG083.2	-GA	5051
90CF056.1	A	5029
92RW009.6 92NG003.1		5014
93BR029.4	-GAAG-A-	5036 5034
94CY032.3	G	5048
96ZM651.8		5011
96ZM751.3		5021
94CY017.41	-GACAGC	5039
94IN476.104	-GACAGC	5002
93BR020.1	TAGGACAACATATCTATAACACCTATGGGGATACTTGGGAAGGAGTTGAAGCAATCATAA	5070
92NG083.2	GT	5111
90CF056.1 92RW009.6		5089
92NG003.1	T	5074
93BR029.4		5096. 5094
94CY032.3	GTACGTA	5108
96ZM651.8		5071
96ZM751.3	ACGGTC-A	5081
94CY017.41	T-CT	5099
94IN476.104		5062
93BR020.1	GGATATTGCAACAACTACTGTTTATCCATTTCAGAATTGGGTGCCGTCATAGCAGAATAG	5130
92NG083.2	-AC-AAAAA	5171
90CF056.1	-A-CGCAAAA	5149
92RW009.6 92NG003.1	-ATCG	5134
93BR029.4	-ATAAT-AA	5156
94CY032.3	-ATC	5154 5168
96ZM651.8	-ACAGC	5131
96ZM751.3	-ACAAAA	5141
94CY017.41	-ATATCAAG	5159
94IN476.104	-A-C-C	5122
0200000	TAT 1st exon start VPR end GCATTACTCGACAGAGAAGAG.TAAGAATTGGAACTAGATCCTAACTTAGATCC	
93BR020.1 92NG083.2	GCATTACTCGACAGAGAGAG.TAAGAAATTGGAACTAGATCCTAACTTAGATCC	5186
90CF056.1	-A	5227 5205
92RW009.6		5190
92NG003.1		5212
93BR029.4	AGACGACGACGACGACGACGACGAC	5210
94CY032.3	IAC-CA-AGGC-G-G-GG-CG-[G-[5228
96ZM651.8	GGT	5187
96ZM751.3	TGC	5197
94CY017.41 94IN476.104	TAGA	5215
	G-CG-CG-C	5178
93BR020.1	CTGGAACCATCCAGGAAGCCAGCCTACAACTCCTTGTACCAGATGTTATTGTAAATGGTG	5246
92NG083.2 90CF056.1	TGGT	5287
92RW009.6		5265
92NG003.1		5250 5272
93BR029.4	G	5270
94CY032.3		5288
96ZM651.8	AT-AGCC	5247
96ZM751.3	AT-AGCAC	5257
94CY017.41 94IN476.104	AA	5275
		5238 start
93BR020.1	TTGCTTTCATTGTTACTGGTGCTTTACAACGAAGGGCTTAGGCATCTCCTATGGCAGGA	5306
92NG083.2	CGGC-AGTTTTACA	5347
90CF056.1	CACC-AATTTAAAT	5325
ODDWING C	A CONTRACTOR CONTRACTOR A	
92RW009.6	-AATCTAGTTCCAGG-AATT	5310
92RW009.6 92NG003.1 93BR029.4	-AA	5332
92NG003.1	-AACTAGTTCCAGG-AAT	5332 5330
92NG003.1 93BR029.4 94CY032.3 96ZM651.8	-A - A - CTAGTT - CCAGG A - A - T - C - C - G - C - A - T - C - C - A - C - C - A - C - C - A - C - C	5332
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-A - A - CTAGTT - CCAGG A - A - T - C - C - G - C - A - T - C - C - A - C - C - A - C - C - A - C - C	5332 5330 5348
92NG003.1 93BR029.4 94CY032.3 96ZM651.8	A - A - CTAGIT - CCAGG A - A - T - C - GG - CC - A T - CTG - AC - C - GC - C - GT - T - C - A - C - C - GG - CC - ACTT - C - C - C - C - C - C - C - C - C	5332 5330 5348 5307

Fig. 130

93BR020.1	GAAGCGGAGACAGCGACCAAGAACTCCTCAAAGCAGTCAGATACATCAAGATTTTGTACC	5366
92NG083.2	ACCACCAGATACCC	5407
90CF056.1	CACGCTTTGAGATAC-AT-	5385
92RW009.6	G-AGATA-CC-AT-	5370
92NG003.1	GCG-GGTCACGATACC	5392
93BR029.4	CC	5390
94CY032.3	ATATGACAGGCACA	5408
96ZM651.8	CGGACCC-AT-	5367
96ZM751.3	GGATACC-AT-	5377
94CY017.41	ACCCG-AGCTCA-AGACACC-A	5395
94IN476.104		5358
TAT/REV 1 c	xon end ← VPU start	2.3
93BR020.1	AAAGCASTAAGTATTGTTAAGCATATGTAATGTCAAATTTGT	5408
92NG083.2	G-AAC-ATT-ATG-AGGCCA	5452
90CF056.1	G-AAC-ATT-AT	5420
92RW009.6	G-AAAACTA-TTCA	5415
92NG003.1	GG-AAGTTTGCA-TCCA	5437
93BR029.4	T	5435
94CY032.3	- AGT-AT - T- TTC-G - G - AA - T - TTC-G - ACTAGCAAGAGTAAAT - CAAAG - T- AT-G - T - AGAAGCAAGAGTAGAT - G - G - ATT-AT - T - CC - A - G - G - ATT-AT - T - CC - A - G - G - ATT-AT - T - CC - A - G - G - ATT-AT - T - CC - A - G - G - G - ATT-AT - T - CC - A - G - G - G - ATT-AT - T - CC - A - G - G - G - G - G - G - G - G - G	5447
96ZM651.8	T-GACTAGCAAGAGTAAAT-	5414
96ZM751.3		5434
94CY017.41	T-CCA	5440
94IN476.104	ATTAGAAAGAGTAGAT-	5405
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
93BR020.1	TAGCAATAGGCATAGCAGCATTAATAGTAGCACTAATAATAACAATAGTTGTGTGGACTA	5468
92NG083.2	A-ATATCTG-CT-CGC-G-C-C-AG-	5502
90CF056.1	GTAGGCGAT-TCG-CGA	5477
92RW009.6	A-ATCTAT-CATC-GT	5475
92NG003.1	A ATCHAIR CA	5493
93BR029.4	A-AT-GCT-CAG-CG-CGCCGC-G-C	5495
94CY032.3	A-ATCTGG-CATG-C-GGTGTA	5507
		5474
96ZM651.8	ATAG-GAGGC-CG	
96ZM751.3	ATAGAGG	5494
94CY017.41	AT-T-G-CATG-C-GTTCTGAA	- 5500
94IN476.10	ATAG-TAGGCTGAC-	5465
		5500
93BR020.1	TAGCATATATAGAATATAAGAAACTGGTAAGGCAAAGAAAAATAAAT	5528
92NG083.2	TT	5562
90CF056.1	T	5537
92RW009.6	GGATG-	5535
92NG003.1		5541
93BR029.4	G-GA	5555
94CY032.3	TTTAG	5567
96ZM651.8		5534
96ZM751.3	TG-CCAT	5554
94CY017.41	TTCATCA-TAAG-AGG-CTATC	5560
94IN476.10		5525
	→ ENV start	
93BR020.1	GAATAAGCGAAAGAGCAGAAGACAGTGGCAATGAGAGTGAGGGGGATGCAGAGGAATTGG	5588
92NG083.2	AAAAA	5622
90CF056.1	G-AAT	5597
92RW009.6		5595
92NG003.1	ACAT	5601
93BR029.4		5615
94CY032.3	AT	5627
96ZM651.8	TGAA-T	5594
96ZM751.3	TAG	5614
94CY017.41	TG	5620
94 IN476.10		5585
	VPU end	
93BR020.1	CAGCACTTGGGGAAGTGGGGCCTTTTATTCCTGGGGACATTAATAATCTGTAATGCTGCA	5648
92NG083.2	AATAGACGATTTGGTGCT	5682
90CF056.1	-CAAGATGAACCATT-TGGC-GG	5657
92RW009.6	AATGGAAC-A-GATTGCTG	5655
92NG003.1	ATCAT-GACGATTTGG-GTGCT	5661
93BR029.4	AAA	5675
94CY032.3	-CATG-AAACGATTTGG-GGCT	5687
96ZM651.8	-A-GA-G-TCAA-CGG-T-TTTGGTTGTGG	5654
96ZM751.3	-AA-G-TTAA-CGG-T-TTTGCT-GGAATG	5674
	TCAGA-CCA-TTTG	5680
94CY017.41 94IN476.10		5680 5645

Fig. 13P

92NG083.2	-TGATCC-C	5742
90CF056.1	CGAC A-CGTC	5717
92RW009.6	CGAGCC	5715
92NG003.1	A-TGCGATCC	5721
93BR029.4	A-CGC	5732
94CY032.3	A-CGCT	5747
	-GG	5714
96ZM651.8 96ZM751.3	-GGAGCAA	5734
	TGATC-TC	5737
94CY017.41	-GGG	5705
94 IN476.104	-GGG	37,03
	CTATTCTGTGCATCAGATGCTAAATCATATGAAAAAGAGGCACATAATGTCTGGGCTACA	5768
93BR020.1	CTATTCTGTGCATCAGATGCTAAATCATATGAGAGGAGCACATAATGTCTGGGCTACA	5802
92NG083.2		5777
90CF056.1	GGG-CAAAG	5775
92RW009.6	TT	5781
92NG003.1	T	5792
93BR029.4	TAA	
94CY032.3	T	5807.
96ZM651.8	A-TG	5774
96ZM751.3	TTT	5794
94CY017.41	T	5797
94IN476.104		5765
93BR020.1	CATGCTTGTGTACCCACAGATCCCAATCCACAAGAAGTAGTTCTGGAAAATGTAACAGAA	5828
92NG083.2	C	5862
90CF056.1	GA-GCAG	5837
92RW009.6	C	5835
	C	5841
92NG003.1	C	5852
93BR029.4	C	5867
94CY032.3	C	5834
96ZM651.8		5854
96ZM751.3	C	5857
94CY017.41	C	5825
94IN476.104	C	5625
	The second secon	5888
93BR020.1	AGGTTTAATATGTGGGAAAATAACATGGTAGAACAAATGCATACAGATATAATCAGTTTA	5922
92NG083.2	-ATGGGAG	5897
90CF056.1	C	
92RW009.6	GACA	5895
92NG003.1	-CTGAG	5901
93BR029.4	- ATG A	5912
94CY032.3	-ACGAGAGGGAG	5927
96ZM651.8	-ATGAGGGTGGAG	5894
96ZM751.3	-AGAG	5914
94CY017.41	-ATAGA	5917
94IN476.104		5885
3411470.10		
93BR020.1	TGGGATCAAAGCCTAAAGCCATGTGTGAAGTTAACCCCACTCTGTGTTACTTTAGATTGT	5948
92NG083.2	GG	5982
90CF056.1		5957
92RW009.6	C	5955
92NG003.1	G	5961
	G	5972
93BR029.4	AGG	5987
94CY032.3		5954
96ZM651.8	A C	5974
96ZM751.3	CA-C	5977
94CY017.41	GCC-TA	5945
94IN476.104	AA-C	5945
	0001001000	5996
93BR020.1	AGAAACATTGCCACCAATGGCACCAATGACACTATTGCCATCAATGAC	
92NG083.2	-CTTG-AAAGTGC-AATCAT-CG	6021
90CF056.1	-CTTG-CAGA-AAC-T-TCAGC-AG-	5993
92RW009.6	-ACCAATGTCAAACTCATT	5991
92NG003.1	-CTTG-CAATTGTCA-T-ATGTGACGC-C-GGGAACAGTGCT-GG-CC-CT	6021
93BR029.4	TTGCCA-TCA-TTC-AAG-CAC-	6008
94CY032.3	-TTTGCAA-TT-C-AAT-GT-CCAT	6017
96ZM651.8	-C-G-GGAATGTT-CCA-A-ATGT-A-T-AGCGTGGTTAATAATACATT	6014
96ZM751.3	-CTGCT-A-ATACAATG-TATAC-ACAATT-AT-TAAC-	6025
94CY017.41	CTGCCAATGCAC-CAT-GCA-T-GGT-GCAC-	6019

Fig. 13Q

93BR020.1	ACTCTGAAGGAAGATCCAGAGGCAATACAAAACTGTTCTTTCAATACAACCACAGAA	6053
92NG083.2		6075
	G-AG-AA-CA-AGAAATACG-T	
90CF056.1	-G-AGCGAGGGACTACTCGTT-	6047
92RW009.6	GGATG-CATGA-AGGAATACTGTG	6045
92NG003.1	GTGTCATAGACAAAC-ACTACT	6081
93BR029.4	CTGAA-G-AGCCAGGG-CAATTGTGTG	6062
94CY032.3	GGCACTGT-ATTA-AGAGAATACGT	6071
96ZM651.8	-A-AAT-GCATGAGGCATGATCC-T	6068
96ZM751.3	-ACTATTA-TAA-TCATGAGTCT	6079
94CY017.41	CAGAGCCCCATTAGA AAT A C A T AT -	6073
94IN476.104	TACTA-TAC-GATTATATCTG	6020
93BR020.1	ATAAGAGATAAGCAGCTGAAAGTACATGCACTTTTTTATAAACTTGATATAGTACAAATC	6113
92NG083.2	ATAMONDA TANGETONIAN TANGETONI	
	-GGGGCAAA-GA-T-CGC	6135
90CF056.1	$C - \cdots - A - \cdots - C - \cdots - G - \cdots - G - \cdots - C - \cdots - T$	6107
92RW009.6	TGA-A-AGGTT	6105
92NG003.1	GG	6141
93BR029.4	GC	6122
94CY032.3	GAAAA-TGCG-AG-CT	6131
96ZM651.8	CA	6128
96ZM751.3	T	6139
	TCT	
94CY017.41	CG	6133
94IN476.104	G	6080
93BR020.1	33 G11GG17FG1G	6136
	AA CAAGGATGAC	
92NG083.2	-GTT-GGA-TG-CT-GT	6158
90CF056.1	G	6127
92RW009.6	T-GCAAGTAATAACAGTAGTCATCAG	6140
92NG003.1	GGTCTCA-AT-AC	6170
93BR029.4	-GAGT-GCGA	6163
94CY032.3	TO THE TANGENG AND THE TANGENG	6184
	TGCTAG.AGTGCCAATTAATGGTAGTAATAGGAATAATAGT-CAGA-GAG	
96ZM651.8	TGACGACTCTGAGACTGGCAACTCT-GA-TAT	6172
96ZM751.3	TGATCCTGA	6159
		6177
94CY017.41		
94CY017.41 94IN476.104	G-TGAAAGTG-AAA-GAATA.CATCAGGTAGTCTCTGTGAA-GAACAGCTCTAGTAACTTGAG	6118
94IN476.104	TGAA-GAACAGCTCTAGTAACTTGAG	6118
94IN476.104 93BR020.1	TGAA-GAACAGCTCTAGTAACTTGAG CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA	6118 6196
94IN476.104		6118
94IN476.104 93BR020.1		6118 6196
94 IN476.104 93BR020.1 92NG083.2 90CF056.1		6118 6196 6218 6187
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6		6118 6196 6218 6187 6200
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1		6118 6196 6218 6187 6200 6230
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4		6118 6196 6218 6187 6200 6230 6223
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		6118 6196 6218 6187 6200 6230 6223 6244
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	TG-A-A-GAACAGCTCTAGT AACT TIAGG- CAGACTAATAAATTGTAGTACCCCTCAACCATTACACAGGCTTGTCCAAAGGGATTTCTTGGGA T-G-C-A-T-A-GT-C-G-C-TT- T-GT-A-A-G-G-C-TT- T-G-A-T-C-A-A-G-C-C-TT- T-T-T-T-A-A-G-C-A-A-C-C-C-TT- T-T-T-A-A-G-C-A-A-C-C-C-TT-	6118 6196 6218 6187 6200 6230 6223 6244 6232
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		6118 6196 6218 6187 6200 6230 6223 6244
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		6118 6196 6218 6187 6200 6230 6223 6244 6232 6219
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	TG-A-A-GAACAGCTCTAGT AACT TIAGG- CAGACTAATAAATTGTGATGCCCTCAACCATTACACAGGCTTGTCCAAAGGGATTGTTCTGGGA T-G-CA-T-A-GGT C-G-C-TT- T-GT-A-A-G-G-C-TT- T-GG-A-A-T-A-G-C-C-TT- T-T-T-A-A-G-C-A-A-C-C-TT- T-T-A-A-GG-A-A-C-C-TT- T-T-A-A-GG-A-A-C-C-TT- T-T-A-A-GG-A-A-C-C-TT- T-T-A-A-C-C-A-G-G-A-A-C-TT- T-T-A-A-C-C-A-G-G-A-C-TT- T-T-A-A-C-C-A-G-G-A-C-TT- T-C-A-A-C-C-A-G-G-A-C-TT- T-C-A-A-C-C-A-C-C-A-G-C-A-C-TT- T-C-A-A-C-C-A-C-C-A-C-C-A-C-C-TT- T-C-A-A-C-C-A-C-C-C-A-C-C-C-TT- T-C-A-A-C-C-A-C-C-C-A-C-C-C-A-C-C-TT- T-C-A-A-C-C-A-C-C-C-A-C-C-C-C-C-TT- T-C-C-A-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-	6118 6196 6218 6187 6200 6230 6223 6244 6232 6219 6237
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		6118 6196 6218 6187 6200 6230 6223 6244 6232 6219
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	TG-A-A-GARCAGCTCTAGT AACT - TIAGG- CAGACTAATAATTGTAGTACCCAGACCATTACCAGAGGCTTGTCCAAAGGGTATTCTTGGGA T-G-CA-T-A-GGT C-G-C-TT- T-GT-A-A-G-C-C-TT- T-GG-A-A-T-A-C-C-C-TT- T-T-T-A-A-G-A-A-C-C-TT- T-T-T-A-A-G-A-A-C-C-TT- T-T-A-A-C-A-A-C-C-TT- T-T-A-A-C-A-A-C-C-TT- T-T-A-A-C-A-A-C-C-TT- T-T-A-A-C-A-A-C-C-TT- T-T-A-A-C-C-A-A-C-C-TT- T-T-A-A-C-C-A-A-C-C-TT- T-T-A-A-C-C-A-A-C-C-TT- T-T-A-A-C-C-A-A-C-C-TT- T-T-A-A-C-C-A-A-C-C-TT- T-T-A-A-C-C-A-A-C-C-TT- T-T-A-A-C-C-A-A-C-C-TT- T-T-A-A-C-C-A-A-C-C-TT-	6118 6196 6218 6187 6200 6230 6223 6244 6232 6219 6237
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92R0009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1		6118 6196 6218 6187 6200 6223 6244 6232 6237 6178
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92RW009.3 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.3	TG-A-A-GAACAGCTCTAGT AACT-TIAG- CAGACTAATAAATTGTGGCTCAACACATTACCAGGCTTGTCCAAAGGGTATCTTGAGA T-G-C-A-T-A-A-GA-TT- T-GT-A-A-A-G-C-A-A-G-C-TT- T-G-A-T-A-A-G-C-A-A-C-C-TT- T-T-A-A-A-G-A-A-A-TT- T-T-A-A-A-G-A-A-A-TT- T-T-A-A-A-G-A-A-A-TT- T-T-A-A-A-G-A-A-A-C-TT- T-T-A-A-A-C-TT- T-T-A-A-A-C-TT- T-T-A-A-A-C-TT- T-T-A-A-A-A-C-TT- T-CCCAATTCCCATCCATTATTGTGCTCCCAGCTGGTTATGCGATTCTAAACTGTAAACGGAA	6118 6196 6218 6187 6200 6230 6223 6244 6232 6219 6237 6178
94IN476.104 93BR020.1 92N0083.2 90CP056.1 92RN009.6 92RN009.6 92RN009.1 93BR029.4 94CY032.3 962M751.3 94CY017.4 94IN476.104 93BR020.1 92R0083.2 90CP056.1	TG-A-A-GAACAGCTCTAGT AACT TIAG- CAGACTAATAAAATTGTGCTCCAAGCATTACCAGGCTTGTCCAAAGGTATCTTGGGA T-G-C-A-A-GT-C-A-A-GT-C-T-T-T-T-A-A-A-G-C-A-A-C-T-T-T-T-A-A-A-G-C-A-A-A-C-T-T-T-T-T-A-A-A-G-C-T-T-T-T-T-A-A-A-G-C-T-T-T-T-T-A-A-A-G-C-T-T-T-T-T-T-A-A-A-G-C-T-T-T-T-T-T-A-A-A-G-C-T-T-T-T-T-T-T-A-A-A-G-C-T-T-T-T-T-T-T-T-T-T-T-T-T-T-T-T-T-T	6118 6196 6218 6187 6200 6223 6244 6219 6237 6178 6256 6247
94 IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZW551.3 94CY017.41 93BR020.1 92NG083.2 90CF056.1	TG-A-A-GARCAGCTCTAGT AACTTIAG- CAGACTAATAAATTGTGTGCTCAAACGATTCTACAGGCTTGTCCAAAAGGTATCTTAGGA T-G-C-A-T-C-A-A-GT-C-A-A-G-C-TG-A-T-G-A-A-G-C-A-A-C-C-TT- T-TT-A-A-A-G-C-A-A-C-C-TT- T-T-A-A-A-G-C-A-A-C-C-TT- T-T-A-A-A-G-C-A-A-C-C-TT- T-T-A-A-A-G-C-A-A-C-C-TT- T-T-A-A-A-G-C-A-A-C-C-TT- T-T-A-A-A-G-C-A-A-C-C-TT- T-T-A-A-A-C-C-TT- T-T-A-A-A-C-C-TT- T-T-C-A-A-A-C-T-C-T-T-C-T-A-T-C-T-T-C-T-A-A-A-C-T-T-T-T	6118 6196 6218 6187 6200 6230 6223 6219 6278 6278 6278 6278 6278
94 IN476.104 93BR020.1 92NG083.2 90CP056.1 92RW009.6 93RK029.4 93ERX029.4 94CY032.3 96ZM751.3 94CY017.41 93BR020.1 92BR0003.1 92BR0003.1	TG-A-A-GAACAGCTCTAGT AACT - TIAG- CAGACTAATAAATTGTGTCTCAAACCATTACCAGGCTTGTCCAAAGGTATCTTGGGA T-G-C-A-A-GT-CT-G-C-T-T-T-CG-T-A-A-GT-CT-G-C-T-T-T-T-A-A-A-GT-CA-AA-GT-T-T-T-T-T-A-A-A-G-CA-A-C-TT-T-T-T-A-A-A-G-CA-A-C-TT-T-T-T-T-A-A-A-G-CA-A-C-TT-T-T-T-T-A-A-A-A-G-C-TT-T-T-T-T-A-A-A-A-C-TT-T-T-T-T-T-A-A-A-A	6118 6196 6218 6187 6200 6230 6244 6232 6247 6237 6178 6256 6247 6260 6290
94 IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZW551.3 94CY017.41 93BR020.1 92NG083.2 90CF056.1	TG-A-A-GARCAGCTCTAGT AACTTIAG- CAGACTAATAAATTGTGTGCTCAAACGATTCTACAGGCTTGTCCAAAAGGTATCTTAGGA T-G-C-A-T-C-A-A-GT-C-A-A-G-C-TG-A-T-G-A-A-G-C-A-A-C-C-TT- T-TT-A-A-A-G-C-A-A-C-C-TT- T-T-A-A-A-G-C-A-A-C-C-TT- T-T-A-A-A-G-C-A-A-C-C-TT- T-T-A-A-A-G-C-A-A-C-C-TT- T-T-A-A-A-G-C-A-A-C-C-TT- T-T-A-A-A-G-C-A-A-C-C-TT- T-T-A-A-A-C-C-TT- T-T-A-A-A-C-C-TT- T-T-C-A-A-A-C-T-C-T-T-C-T-A-T-C-T-T-C-T-A-A-A-C-T-T-T-T	6118 6196 6218 6187 6200 6230 6223 6219 6278 6278 6278 6278 6278
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94 IN476.104 93BR020.1 92NG083.2 90CP056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CP056.1 92NG003.1 92RW009.6 92NG003.1 92RW009.6	TG-A-A-GAACAGCTCTAGT AACT - TIAG- CAGACTAATAAATTGTGATGCCCCAACAGTTACACAGGCTTGTCCAAAGGGTACTTGTGGA T-G-C-A-A-T-A-T-T-T-A-A-A-C-A-T-T-T-T-A-A-A-C-A-A-C-T-T-T-T	6118 6196 6218 6187 6200 6230 6223 6224 6237 6178 6256 6278 6260 6290
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM551.8 96ZM751.3 94CY017.4 192NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM551.8	TG-A-A-GAACAGCTCTAGT AACT TIAG- CAGACTAATAAATTGTGATGCCTCAACACATTACACAGGCTTGTCCAAAGGGTATCTTGAGA TG-C-A-T-A-A-GA-CATTACACAGGCTTGTCAAAGGGTATCTTGAGA T-G-A-T-A-A-G-C-A-A-C-C-TT- T-T-A-A-A-G-C-A-A-A-T-T-T-T-A-A-A-C-A-A-A-T-T-T-T-A-A-A-A	6118 6196 6218 6187 6200 6223 6244 6232 6217 6178 6256 6278 6276 6290 6283 6304 6292
94IN476.104 93BR020.1 92N0083.2 90CF056.1 92RW009.6 93RW009.6 93RW009.6 94BR019.3 94CW017.41 93BR020.1 92KW009.6 94IN476.104 93BR020.1 92KW009.6 93BR020.1 92KW009.6 94IN476.104 93BR020.1 92KW009.6 94IN476.104	TG-A-A-GAACAGCTCTAGT AACT TIAG- CAGACTAATAAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGGTATCTTGGGA T-G-C-A-T-A-GT-C-A-A-GT-TT-T-G-C-T-A-A-GT-TT-T-T-A-A-A-GC-A-A-C-C-TT-T-T-A-A-A-GC-A-A-C-C-TT-T-T-A-A-A-GC-A-A-C-C-TT-T-T-T-A-A-A-GC-A-A-C-C-TT-T-T-T-A-A-A-GC-A-A-A-C-C-TT-T-T-A-A-A-A-C-C-TT-T-T-A-A-A-A	6118 6196 6218 6187 6200 6230 6223 6242 6237 6178 6256 6278 6247 6260 6283 6304 6292 6297
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM551.8 96ZM751.3 94CY017.4 192NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM551.8	TG-A-A-GAACAGCTCTAGT AACT TIAG- CAGACTAATAAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGGTATCTTGGGA T-G-C-A-T-A-GT-C-A-A-GT-TT-T-G-C-T-A-A-GT-TT-T-T-A-A-A-GC-A-A-C-C-TT-T-T-A-A-A-GC-A-A-C-C-TT-T-T-A-A-A-GC-A-A-C-C-TT-T-T-T-A-A-A-GC-A-A-C-C-TT-T-T-T-A-A-A-GC-A-A-A-C-C-TT-T-T-A-A-A-A-C-C-TT-T-T-A-A-A-A	6118 6196 6218 6187 6200 6223 6244 6232 6217 6178 6256 6278 6276 6290 6283 6304 6292
94IN476.104 93BR020.1 92N0083.2 90CF056.1 92RW009.6 93RW009.6 93RW009.6 94BR019.3 94CW017.41 93BR020.1 92KW009.6 94IN476.104 93BR020.1 92KW009.6 93BR020.1 92KW009.6 94IN476.104 93BR020.1 92KW009.6 94IN476.104	TG-A-A-GAACAGCTCTAGT AACT TIAGG- CAGACTAATAAATTGTGTGTGCTCAAAGGGTTGTCCAAAGGGTATCTTGGGA T-G-C-A-T-G-C-T-A-T-GA-TTG-CAGAGGTATCTAAAGGTATCTAGGA T-G-C-A-A-GT-C-C-T-A-T-GG-T-A-GG-T-T-T-T-A-A-A-GG-A-A-C-C-TT-T-T-A-A-A-GG-A-A-A-C-C-TT-T-T-A-A-A-GG-A-A-A-C-C-TT-T-T-A-A-A-GG-A-A-A-C-C-TT-T-T-A-A-A-GG-A-A-A-C-C-TT-T-T-A-A-A-GG-A-A-C-C-TT-T-T-A-A-A-GG-A-A-A-GG-A-C-TT-T-T-A-A-A-A-C-C-TT-T-T-A-A-A-A-C-C-TT-T-T-A-A-A-A	6118 6196 6218 6187 6200 6230 6223 6242 6237 6178 6256 6278 6247 6260 6283 6304 6292 6297
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94 IN476.104 93BR020.1 92NG083.2 90CR056.1 92RW003.1 93BR029.4 44CY032.3 96ZMF51.8 96ZM751.3 94CY017.41 93BR020.1 93BR020.9 90CF056.1 93BR020.9 94CW755.9 94CW755.1	TG-A-A-GAACAGCTCTAGT AACT - TIAG- CAGACTAATAAAATTGTGATGCCTCAACCATTACCAGGCTTGTCCAAAGGTATCTTGGGA T-G-C-A-T-A-GT C-A-A-GT C-C-TT- T-GT A-A-G C-A-A-G C-TT- T-T-A-A-A-G-C-A-A-C-C-TT- T-T-A-A-G-C-A-A-C-C-TT- T-T-A-A-C-A-A-C-C-TT- T-T-A-A-C-C-A-A-C-C-TT- T-T-A-A-C-C-A-A-C-C-TT- T-T-A-A-A-C-C-T-A-G-C-TT- T-T-A-A-A-C-C-T-A-G-C-T-A-C-C-TT- CCAATTCCCATACATTATTGTGCTCCAGCTGGTTATGCGATTCTAAAGTGTAATGAGAA C-T-C-C-G-T-C-A-T-C-T-G-T-C-C-T-C-C-T-C-C-T-C-C-T-T-T-G-T-T-C-C-T-C-C-T-T-T-C-C-T-T-C-C-T-T-C-C-T-T-C-C-T-T-T-C-C-T-T-C-C-T-T-T-C-C-T-T-C-C-T-T-T-C-C-T-T-T-C-C-T-T-T-C-C-T-T-T-T-C-T	6118 6196 6218 6187 6200 6230 6223 6244 6232 6219 6277 6276 6278 6278 6279 6290 6283 6304 6292 6279 6293 6316
94IN476.104 93BR020.1 92N0083.2 90CF056.1 93ER003.6 93ER003.6 93ER029.4 94CY032.3 96ZM551.8 94CW017.41 93ER020.1 93ER020.9 94ER036.8 93ER020.9 94ER036.8 93ER020.1 93ER020.1 93ER020.1 93ER020.1 93ER020.1 93ER020.1 93ER020.1	TG-A-A-GAACAGCTCTAGT AACT TIGG- CAGACTAATAAATTGTGTGCTCAACAGGTTTGTCCAAAGGTATCTTGGGA TG-G-C-A-A-GA-TT-A-GT-CAAGGTTTGTCCAAAGGTATCTTGGGA T-G-A-A-GT-C-A-GG-C-TT-T-T-G-A-A-GG-A-A-A-C-G-TT-T-T-A-A-A-GG-A-A-A-A-A-TT-A-TT	6118 6196 6218 6187 6200 62203 62223 6244 62322 6219 6277 6260 6278 6278 6279 6290 6283 6316 6338 6316 6337
94IN476.104 93BR020.1 92NG083.2 90CP056.1 92RW009.6 92NG003.1 93BR029.4 94CX032.3 94CX032.3 94CX017.41 93BR020.1 92NR009.6 92NG003.1 92NR009.6 92NG003.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	TG-A-A-GAACAGCTCTAGT AACT TIAG- CAGACTAATAAATTGTGATGCCTCAACACCATTACACAGGCTTGTCCAAAGGGTATCTTGGGA T-G-A-T-A-A-GA-CATTACACAGGCTTGTCAAAGGGTATCTTGGGA T-G-A-T-C-A-A-G-C-A-A-G-C-TT- T-G-A-A-A-G-A-A-C-C-TT- T-T-A-A-A-G-A-A-A-C-C-TT- T-T-A-A-A-G-A-A-A-T-T-T-A-A-A-A-C-TT- T-T-A-A-A-A-C-TT- T-T-A-A-A-A-C-TT- T-T-A-A-A-A-C-TT- T-C-A-A-A-C-TT- T-T-A-A-A-A-C-TT- T-T-A-A-A-A-C-TT- T-T-C-A-A-A-C-TT- T-T-C-A-A-A-C-TT- T-T-C-A-A-A-C-TT- T-T-C-A-A-A-C-TT- A-T-T-C-A-A-A-C-TT- A-T-T-T-C-A-A-A-C-TT-C-T-T-C-T-T-C-T-T-T-T	6118 61196 6218 6187 6200 6230 6223 6244 6232 6219 6278 6278 6246 6278 6246 6278 6279 6238 6304 6338 6304 6392 6279 6238
94 IN476.104 93BR020.1 92N0083.2 90CF056.1 93RW003.6 93RW003.6 93RW003.6 93RW003.6 94CY03.2.3 96ZW551.8 96ZW751.3 94CY017.41 93BR020.1 92RW009.6 92NG003.1 92NG003.1 92NG003.1 93R020.1 93BR020.1 93R020.1 93R020.1 93R020.1	TG-A-A-GAACAGCTCTAGT AACT TIGG-CAGACTATAAATTGTTGAGTACTAGGATTGTCAAAGGTATTATGAGTATCTTGGATACAAGGTATTACAAGGTATCTAAGGTATCTTGGAAGTATCATAAGGTATCTTGGAAGTACAATTACAAGGTATCTAAAGGTATCTTGGAAGTACAATTACAAGGTATCAAAGGTATCAAAGGTATCAAAGGTATCAAAGGTATCAAAGGTATCAAAGGTAATGAAAACCAATTACAATTACAAAACCAAATTACAAAATTACAAAATTACAAATTACAAATTACAAATTACAAATTACAAATTACAAATTACAAATTACAAATTACAAATTACAAATTACAAATTACAAATTACAAAATTACAAAATTACAAAATTACAAAATTACAAAATTACAAAATTACAAAATTACAAAATTAAAAAA	6118 6196 6218 6187 6200 6230 6223 6244 6232 6217 6178 6256 6278 6278 6278 6292 6292 6293 6306 6307 63307 63307
94 IN476.104 93BR020.1 92N0083.2 92N0083.2 92CN0569.16 92N0093.1 93BR029.4 94CY032.3 962M551.8 94CY017.41 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 94CY017.41 93BR020.1 93BR020.1 94CY017.41	TG-A-A-GAACAGCTCTAGT AACT-TIAG- CAGACTAATAAATTGTGATGCCTCAACACATTACACAGGCTTGTCCAAAGGGTATCTTGGGA T-G-C-A-T-C-G-A-T-A-C-C-G-T-T-T-G-C-T-C-C-T-C-C-T-C-C-T-C-C-T-C-C-T-C-C-T-C-C-T-C-C-T-C-C-C-T-C-C-T-C-C-T-C-C-C-C-T-C	6118 6196 6218 6187 6200 6230 6223 6244 6232 6219 6278 6278 6278 6267 6260 6290 6283 6304 6292 6279 6238 6316 6338 6307 6320 6353
94IN476.104 93BR020.1 92NC083.2 90CF056.1 92RW009.6 93ERW009.6 93ERW009.6 93ERW009.6 93ERW009.6 93ERW009.6 93ERW009.6 93ERW009.6 93ERW0017.41 93ERW009.6 94ERW51.3 94CW032.3 94CW032.3 94CW032.3 94CW032.3 94CW032.3	TG-A-A-GAACAGCTCTAGT AACT - TIAG- CAGACTAATAAAATTGTGATGCCCCAACAATTACACAGGCTTGTCCAAAGGTATCTTGGGA T-G-C-A-A-B-GT - C-G-C-TT- T-G-A-A-B-GG - A-A-G-C-TT- T-G-A-A-C-A-A-C-G-TT- T-TT-A-A-G-C-A-A-C-C-TT- T-TT-A-A-G-G-A-A-C-C-TT- T-TT-A-A-A-GG-A-A-A-C-C-TT- T-TT-A-A-A-GG-A-A-A-C-C-TT- T-TT-A-A-A-GG-A-A-A-G-C-TT- T-TT-A-A-A-GG-A-A-A-G-C-TT- T-TT-A-A-A-GG-A-A-A-G-C-TT- T-TT-A-A-A-GG-A-A-A-G-C-TT- T-TT-A-A-A-G-C-A-G-G-C-TT- T-TT-A-A-A-A-G-T-A-G-G-G-G-G-C-T- A-TT-T-A-A-A-A-C-C-TT-T-GG-TCCAGCTGGTTATGCGATTCTAAAGTGTAATGAGAA C	6118 6196 6218 6187 6200 6230 6234 6232 6214 6237 6178 6257 6267 62690 6290 6292 6297 62690 6303 6316 6308 6308 6308 6308 6308 6308 6308 6343
94 IN476.104 93BR020.1 92NG083.2 90CR0569.1 60CR0569.1 60CR0569.1 93BR029.4 94CY032.3 96ZM551.8 94CY017.41 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 94CR051.8 94CW515.1 93BR020.1	TG-A-A-GAACAGCTCTAGT AACT TIGG- CAGACTAATAAATTGTGATGCCTCAACACATTACACAGGCTTGCAAAGGGTATCTTGAGA TG-C-A-A-GAACATTCACAGGCTTGCAAAGGGTATCTCTGAGA T-G-C-A-A-GT-A-A-GT-C-C-T-T-T-G-C-A-A-C-C-TT-T-T-A-A-A-GC-A-A-C-C-TT-T-T-A-A-A-GC-A-A-C-C-TT-T-T-A-A-A-A-C-C-TT-T-T-A-A-A-A	6118 6119 61218 61218 6218 6223 6223 6223 6223 6223 6223 6223 622
94IN476.104 93BR020.1 92NC083.2 90CF056.1 92RW009.6 93ERW009.6 93ERW009.6 93ERW009.6 93ERW009.6 93ERW009.6 93ERW009.6 93ERW009.6 93ERW0017.41 93ERW009.6 94ERW51.3 94CW032.3 94CW032.3 94CW032.3 94CW032.3 94CW032.3	TG-A-A-GAACAGCTCTAGT AACT TIGG- CAGACTAATAAATTGTGATGCCTCAACACATTACACAGGCTTGCAAAGGGTATCTTGAGA TG-C-A-A-GAACATTCACAGGCTTGCAAAGGGTATCTCTGAGA T-G-C-A-A-GT-A-A-GT-C-C-T-T-T-G-C-A-A-C-C-TT-T-T-A-A-A-GC-A-A-C-C-TT-T-T-A-A-A-GC-A-A-C-C-TT-T-T-A-A-A-A-C-C-TT-T-T-A-A-A-A	6118 6196 6218 6187 6200 6230 6234 6232 6214 6237 6178 6257 6267 62690 6290 6292 6297 62690 6303 6316 6308 6308 6308 6308 6308 6308 6308 6343
94 IN476.104 93BR020.1 92NG083.2 90CR0569.1 60CR0569.1 60CR0569.1 93BR029.4 94CY032.3 96ZM551.8 94CY017.41 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 94CR051.8 94CW515.1 93BR020.1	TG-A-A-GAACAGCTCTAGT AACT - TIAG- CAGACTAATAAAATTGTGATGCCCCAACAATTACACAGGCTTGTCCAAAGGTATCTTGGGA T-G-C-A-A-B-GT - C-G-C-TT- T-G-A-A-B-GG - A-A-G-C-TT- T-G-A-A-C-A-A-C-G-TT- T-TT-A-A-G-C-A-A-C-C-TT- T-TT-A-A-G-G-A-A-C-C-TT- T-TT-A-A-A-GG-A-A-A-C-C-TT- T-TT-A-A-A-GG-A-A-A-C-C-TT- T-TT-A-A-A-GG-A-A-A-G-C-TT- T-TT-A-A-A-GG-A-A-A-G-C-TT- T-TT-A-A-A-GG-A-A-A-G-C-TT- T-TT-A-A-A-GG-A-A-A-G-C-TT- T-TT-A-A-A-G-C-A-G-G-C-TT- T-TT-A-A-A-A-G-T-A-G-G-G-G-G-C-T- A-TT-T-A-A-A-A-C-C-TT-T-GG-TCCAGCTGGTTATGCGATTCTAAAGTGTAATGAGAA C	6118 6119 61218 61218 6218 6223 6223 6223 6223 6223 6223 6223 622

Fig. 13R

	TAAACCAGTGGTATCCACTCAATTGTTGTTAAATGGCAGCCTAGCAGAAGGAGAGAT	6373
92NG083.2	GAC-ACC-GTTAT-	6395
90CF056.1	GAAAAA	6364
92RW009.6	CGAAGCCT	6377
92NG003.1		6407
93BR029.4	AAT	6400
94CY032.3	GAAAAAG-	6421
96ZM651.8	G	6409
96ZM751.3 94CY017.41	GAACTTA	6396 6417
94CY017.41 94IN476.104		6355 .
341N4 /0.104	g	24
93BR020.1	AGTAATCAGATCTCAAAATATCTCAGATAATGCAAAAACCATAATAGTGCACCTTAATGA	6433
92NG083.2	-AGTGTACA-CGTGA-	6455
90CF056.1	CATAA	6424
92RW009.6	-ATAACCAAAC	6437
92NG003.1	TAGAAAGAGAG	6467
93BR029.4	-AT	6460 .
94CY032.3	ATAGGCAA-	6481
96ZM651.8	-ATAG	6469
96ZM751.3	-ATAGACTAAT	6456
94CY017.41	-A-GTTAA-CCATGTC-A-	6477
94IN476.104	-ACTAACTAT	6415
93BR020.1	ATCTGTACAGATTAATTGTACAAGACCCAACAACAATACAAGAAAAAGAATATCTTTAGG	6493
92NG083.2	TAG-AG-ATCTTTTC-AA-C	6515
90CF056.1	-C-AA-CCACGTTGCTCA	6484
92RW009.6	GAT-CT-CTGCA-A	6497
92NG003.1	-AAGGATAGAA-C	6527
93BR029.4	G-CTC-AA	6520
94CY032.3	GGTGCA-A	6541
96ZM651.8	AG-AGTGGT	6529
96ZM751.3	G-ATG-GAGGA	6516
94CY017.41	GCTACGCT	6537
94 IN4 76 . 104	CAA-AGTATCTAGGA	6475
93BR020.1	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6553
92NG083.2	ACGCGTTAC-A	6575
90CF056.1	GTAC-A	6544
92RW009.6	ACGTCGGTAC-AT	6557
92NG003.1	TACGCGT	6557 6570
92NG003.1 93BR029.4	TACGCGTC-A	6557 6570 6580
92NG003.1 93BR029.4 94CY032.3	TACGCGTT-AC-A	6557 6570 6580 6601
92NG003.1 93BR029.4 94CY032.3 96ZM651.8	TACGCGTC-A	6557 6570 6580 6601 6589
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		6557 6570 6580 6601 6589 6576
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	- T - A - CG - CC - G - T - C - A	6557 6570 6580 6601 6589 6576 6594
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		6557 6570 6580 6601 6589 6576
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	- T - A - CG - CC - G - T - C - A	6557 6570 6580 6601 6589 6576 6594 6535
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	TACGCGTC-A. GT-ACGGGTT-AC-A. A-ACCG	6557 6570 6580 6601 6589 6576 6594
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	- T - A - CG - CC - G - T - C - A	6557 6570 6580 6601 6589 6576 6594 6535
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	- T - A - CG - C - G - T - C - A	6557 6570 6580 6601 6589 6576 6594 6535
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92BR020.1 92BF056.1 92RW009.6	- T - A - CG - C - G - T - C - A - A	6557 6570 6580 6601 6589 6576 6594 6535 6613 6635 6604
92NG003.1 93BR029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	- T - A - CG - C - G - T - C - A	6557 6570 6580 6601 6589 6576 6594 6535 6613 6635 6604 6617
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	- T - A - CG - CC - G - T - C - A - A	6557 6570 6580 6601 6589 6576 6535 6613 6613 6614 6614
92NG003.1 93BR029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	- T - A - CG - C - G - T - C - A	6557 6570 6580 6601 6589 6576 6594 6535 6613 6635 6604 6617 6614 6661
92NG003.1 93BR029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CP056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 962M651.8	- T - A - CG - C - G - T - T - A - C - A - A	6557 6570 6580 6501 6589 6574 6535 6613 6614 6614 6640 6649
92NG003.1 93BR029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 94IN476.104 93BR020.1 92BR0083.2 90CF056.1 92BR0093.1 93BR029.4 94CY032.3 962M651.8	- T - A - CG - C - G - T - C - A	6557 6570 6580 6601 6589 6594 6535 6613 6614 6661 6661 6661 6661 6643
92NG003.1 93BR029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CP056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 962M651.8	- T - A - CG - C - G - T - T - A - C - A - A	6557 6570 6580 6501 6589 6574 6535 6613 6614 6614 6640 6649
92NG003.1 93BR029.4 94CY032.3 96ZW651.8 96ZW751.3 94CY071.41 94IN476.104 93BR020.1 92RW009.6 92RW009.6 92RW009.6 92RW009.6 94CY032.3 94CY032.3 94CY032.3 94CY032.3 94CY032.3 94CY032.3	- T - A - CG - C - G - T - C - A	6557 6570 6580 6601 6589 6576 6594 6535 6601 6601 6601 6661 6661 6661 6663 6663
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 92NG003.4 43CY03.2.3 96ZM651.8 96ZM751.3 94CY017.41	- T - A - CG - C - G - T - C - A - A	6557 6570 6580 66019 6589 6576 6594 6535 6613 6635 6617 6614 6640 6640 6640 6640 6640 66595
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92RW009.6 92RW009.6 92RW009.6 92RW009.6 94CW032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	- T - A - CG - C - G - T - C - A	6557 6580 6601 6589 6576 6594 6535 6613 6604 6617 6617 6661 6640 6654 6554 6554 657 667 6692
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 92NG083.3 94CY017.41 94CY017.41 94IN476.104	- T - A - CG - C - G - T - C - A - A	6557 6580 66019 6589 6576 6594 6535 6613 6635 6617 6617 6614 6640 6649 6636 6649 6636 66595
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 92NG0683.2 90CP056.1 92RW009.6 94CY032.3 94CY032.3 94CY051.8 94CY032.3 94CY051.3 94CY051.3 94CY051.3 94CY051.3	- T - A - CG - C - G - T - C - A	6557 6580 6601 6589 6576 6594 6535 6613 6614 6614 6640 6661 6649 6654 6654 6654 6654 6654 6670
92NG003.1 93BR029.4 94CY032.3 962M651.8 962M7551.3 94CY017.4 192NG083.2 90CF086.1 92RW009.6 92NG003.2 94CY032.3 94CY032.3 94CY032.3 94CY032.3 94CY032.3 94CY032.3 94CY032.3 94CY032.3 94CY032.3 94CY032.3 94CY032.3		6557 6570 6580 6601 6589 6576 6594 6535 6613 6614 6614 6661 6649 6636 66595
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 92RW009.6 92NG003.1 93BR020.1 94CY017.41 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	- T - A - CG - C - G - T - C - A	6557 6580 6601 6580 6576 6576 6594 6536 6613 6635 6604 6617 6614 66640 66654 6654 66564 66564 66564 6657
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 92BR020.1 92BR020.1 92BR020.1 92RW009.6 92NG003.1 93BR020.4 93BR020.4 93BR020.4 93BR020.4 93BR020.4 93BR020.4 93BR020.4 93BR020.4 93BR020.4 93BR020.4 94CY017.41 94INA76.104 93BR020.4 94INA76.104 93BR020.4 94INA76.104 93BR020.4 94BR020.3	- T - A - CG - C - G - T - C - A - C - A - C - G - G - T - C - A - A	6557 6570 6580 6601 6589 6574 6535 6613 6614 6614 6614 6661 6649 6653 6670 6670 6670 6670 6670 6670 6670 667
92NG003.1 93BR029.4 94CY032.3 96ZM551.8 96ZM551.8 96ZM5751.3 94CY017.41 93BR020.1 92RW009.6 92NG003.1 93BR020.1 94CY017.41 93BR020.1 94CY032.3 96ZM551.8 94CY017.41 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	- T - A - CG - C - G - T - C - A - A	6557 6580 6601 6580 6576 6576 6594 6536 6613 6635 6604 66617 6644 66654 6654 6656 6697 6692 6697 6697 6697 6697 6697 669
92NG003.1 93BR029.4 94CV032.3 96ZM651.8 96ZM751.3 94CV017.41 94IN476.104 93BR020.1 92NG003.2 90CF056.1 92NG003.1 93BR020.1 94CW33.3 94CW31.3 94CW31.3 94CW31.3 94CW31.3 94CW31.3 93BR020.1 93BR020.1 94CW31.3	- T - A - CG - C - G - T - C - A	6557 6580 6601 6580 6576 6594 6594 6535 6601 6617 6614 6640 6640 6640 6654 6654 6654 6654 665
92NG003.1 93BR029.4 94CY032.3 96ZM551.8 96ZM551.8 96ZM5751.3 94CY017.41 93BR020.1 92RW009.6 92NG003.1 93BR020.1 94CY017.41 93BR020.1 94CY032.3 96ZM551.8 94CY017.41 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	- T - A - CG - C - G - T - C - A - A	6557 6580 6601 6580 6576 6576 6594 6536 6613 6635 6604 66617 6644 66654 6654 6656 6697 6692 6697 6697 6697 6697 6697 669

Fig. 13S

93BR020.1	TACAAGGCATAATTTTAATTGTATGGGAGAATTTTTCTACTGTAATACAGATGAACTGTT	
92NG083.2	CAGAGAGATCA-GTCA-G	6730
90CF056.1	GCA	6752
92RW009.6	CAGGATCA-GGTCA-GCT	6721
92NG003.1	CAGTCA-GCTTCA-G-T	6737
93BR029.4	TCA-G-TCA	6728
94CY032.3	CAGCAATCACACC	6757
96ZM651.8		6778
96ZM751.3	CAGC	6766
94CY017.41		6,753
94IN476.10		6771
	CGATCAAG	6712
93BR020.1	TAATGACACAAAATTCAATGACACAGGATTCAATGGC	
92NG083.2	A-T-AT-TTAGTAAT-TA-T-AT-AG.	:6767
90CF056.1	AGT-GTTGGGAAATGCACT-ATTACACATCAAATGACACAAAGGGAAACGA	6783
92RW009.6		6778
92NG003.1		6792
93BR029.4	GT-GA-ACTGGC.	6755
94CY032.3		6779
96ZM651.8		6835
96ZM751.3	GTGTTTAATGGT-CAATTCTAATGA-AAGTAATTCG	6804
94CY017.41	GTGTGG-GGAACGTGAGGGCC-TACACACCTAATAACAC	6802
94IN476.10	C-GTT-CAATGGT-CAGACATGC-TACATACAAATTCCAGTTCAGA	6828
	T CANAGAT CAGACATGC TAC ATACAAATTCCAGTTCAGA	6772
93BR020.1	ACTATCACTCTCCCATGTCGAATAAAACAAATTGTAAACATGTGGCAGGAAGT	
92NG083.2	-AA	6820
90CF056.1	AACTAGCAAG	6836
92RW009.6		6832
92NG003.1	AAGGAC	6845
93BR029.4	-AGGAC	6806
94CY032.3	ACAACACTGG	6832
96ZM651.8		6889
962M751.3		6856
94CY017.41	-CTGT-ACAACGGCA-TGA-TCCAACAGAG	6855
94IN476.104	CTCTGT	6888
	TG-1A-G	6826
93BR020.1	GGGACGAGCAATGTATGCCAATCCCATTGCAGGAAACATTACCTGTAACTCAAATATTAC	
92NG083.2	ACTCCGTAAC	6880
90CF056.1	A	6896
92RW009.6	AA	6892
92NG003.1	CC	6905
93BR029.4		6866
94CY032.3	G-A	6892
96ZM651.8	AA	6949
96ZM751.3	AA	6916
94CY017.41		6915
94IN476.104	AA	6948
	C	6886
93BR020.1	AGGTCTGCTATTGACAAGAGATGGTGGTCTGAATAGTACTAATGA	
92NG083.2	AT-AAAAG-G	6925
90CF056.1	AATTC-AGAACGCGTC-GCAGAAT	6947
92RW009.6		6940
92NG003.1	GATAA-C	6953
93BR029.4	G-ATAG-GTA-ATC-GGA A-AAAA-AA	6914
94CY032.3		6940
96ZM651.8		6991
96ZM751.3	AAAC-TAGACAAATGACACAAAC-CA	6976
94CY017.41		6966
94IN476.104	AAAGT-C-TAC	6993
		6934
93BR020.1	GACCTTCAGACCTGGGGGAGGAAATATGAAAGACAATTGGAGAAGTGAATTATATAAATA	-
92NG083.2		6985
90CF056.1	TG	7007
92RW009.6	A	7000
92NG003.1		7013
93BR029.4		6974
94CY032.3	T	7000
94CY032.3 96ZM651.8	T	7051
96ZM651.8 96ZM751.3	T	7051 7036
96ZM651.8 96ZM751.3 94CY017.41	-T	7051 7036 7026
96ZM651.8 96ZM751.3	T	7051 7036

Fig. 13T

93BR020.1		
	TAAAGTAGTAGAAATTGAACCACTAGGAGTAGCACCCACC	7045
	TAAAGTAGTAGAAATTGAACCACTAGGAGTAGCACCCACC	
92NG083.2	ACACAT	7067
90CF056.1	AGGAG	7060
	AGAGAGAGAGAG	
92RW009.6	G	7073
92NG003.1	AAGAG	7034
93BR029.4		7060
94CY032.3	A-GA-GATGGG	7111
96ZM651.8	GA-GT-GATGGAG	7096
	G N.G. W. W. GG GNG	7086
96ZM751.3	GA-GTTCGGAG	
94CY017.41	TGAG	7113
	_ " "	
94 IN 476 . 104	G	7054 -
	0.1.0.1.0.1.0.1.1.0.1.0.1.0.1.0.0.1.0.0.1.0.0.1.0.0.1.0	7105
93BR020.1	GAAGAGAAAGAAGAGCAGTGGGACTAGGAGCTCTGTTCCTTGGGTTCTTGGGAGCAGC	7105
92NG083.2	-GAA	7127:
	-gAA	144
90CF056.1	-GAA-GTCT	7120 1
92RW009.6	-GAAAAAA	7133
	-GAA	
92NG003.1	-GAA	7094
		7120
93BR029.4	AA-G1	
94CY032.3	A-TA-GTA-TA-GCA	7171
96ZM651.8	-GAAAG	7156
96ZM751.3	-GAA	7146
	-G A A	
94CY017.41	-GATGG-C	7173
94IN476.104	-GT	7114
941N4/6.104	-GG	/114
		7165
93BR020.1	TGGAAGCACTATGGGCGCGCGTCAATAACGCTGACGGTACAGGCCAGACAATTATTGTC	
92NG083.2	AGT	7187
	A 0	
90CF056.1	AG	7180
92RW009.6	A	7193
92NG003.1	AT	7154
		7180
93BR029.4	ACA	
94CY032.3	AG	7231
96ZM651.8	AC	7216
96ZM751.3	AT	7206
	A	
94CY017.41	ACC	7233
94IN476.104	A	7174
941N4 /6.1U4	A	1114
93BR020.1	TGGAATAGTGCAACAGCAGAGCAATCTGCTGAGGGCTATTGAAGCGCAACAGCATCTGTT	7225
	TGGAATAGTGCAACAGCAGAGCAATCTGCTGAGGGCTATTGAAGCGCAACAGCATCTGTT	7225 7247
92NG083.2	CAGGG	7247
92NG083.2 90CF056.1		7247 7240
92NG083.2 90CF056.1		7247 7240
92NG083.2 90CF056.1 92RW009.6		7247 7240 7253
92NG083.2 90CF056.1	- C	7247 7240 7253 7214
92NG083.2 90CF056.1 92RW009.6 92NG003.1	- C	7247 7240 7253 7214
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	- C - A - T - A - G - G - A - T - A - G - G - A - C - A - T - A - A - G - G - A - A - C - A - T - A - G - T - A - G - T - A - G - A - A - C - A - T - A - G - G - A - A - A - C - A - T - A - G - A - A - A - C - A - T - A - G - A - A - A - A - C - A - A - C - A - A	7247 7240 7253 7214 7240
92NG083.2 90CF056.1 92RW009.6 92NG003.1	- C - A - T - A - G - G - A - T - A - G - G - A - C - A - T - A - A - G - G - A - A - C - A - T - A - G - T - A - G - T - A - G - A - A - C - A - T - A - G - G - A - A - A - C - A - T - A - G - A - A - A - C - A - T - A - G - A - A - A - A - C - A - A - C - A - A	7247 7240 7253 7214
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	- C - A - T - A - G - G - A - T - A - G - G - A - T - A - G - G - A - A - A - G - G - A - A	7247 7240 7253 7214 7240 7291
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	- C - A - T - A - G - G - A - T - A - G - G - A - T - A - A - G - G - A - A - A - G - G - A - A	7247 7240 7253 7214 7240 7291 7276
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	- C - A - T - A - G - G - A - T - A - G - G - A - T - A - A - G - G - A - A - A - G - G - A - A	7247 7240 7253 7214 7240 7291
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	- C - A - T - A - G - G - A - T - A - A - G - G - A - T - A - A - A - G - G - A - A - A - A - A	7247 7240 7253 7214 7240 7291 7276 7266
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.3 96ZM751.3	- C - A - T - A - G - G - A - T - A - G - G - A - T - A - A - G - G - A - A - T - A - A - G - G - A - A - A - A - A - A	7247 7240 7253 7214 7240 7291 7276 7266 7293
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.3 96ZM751.3	- C - A - T - A - G - G - A - T - A - G - G - A - T - A - A - G - G - A - A - T - A - A - G - G - A - A - A - A - A - A	7247 7240 7253 7214 7240 7291 7276 7266
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	- C - A - T - A - G - G - A - T - A - A - G - G - A - T - A - A - A - G - G - A - A - A - A - A	7247 7240 7253 7214 7240 7291 7276 7266 7293
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	- C - A - T - A - G - G - A - T - A - G - G - A - T - A - A - G - G - A - A - T - A - A - G - G - A - A - A - A - A - A	7247 7240 7253 7214 7240 7291 7276 7266 7293 7234
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	- C - A - T - A - G - G - A - T - A - G - G - A - T - A - A - G - G - A - A - T - A - A - G - G - A - A - A - A - A - A	7247 7240 7253 7214 7240 7291 7276 7266 7293 7234
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	- C - A - T - A - G - G - A - T - A - AC - G - A - A - A - A - A - A - A - A - A	7247 7240 7253 7214 7240 7291 7276 7266 7293 7234
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZW551.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	- C - A - T - A - G - G - A - T - A - AC - G - A - A - A - A - A - A - A - A - A	7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7285 7307
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZW551.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	- C - A - T - A - G - G - A - T - A - AC - G - A - A - A - A - A - A - A - A - A	7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7285 7307
92NG083.2 90CP056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM551.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	C	7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZW551.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	- C - A - T - A - G - G - A - T - A - A - G - G - A - A - T - A - A - G - G - A - A - A - A - A - A	7247 7240 7240 7214 7240 7276 7266 7266 7293 7234 7285 7307 7300 7313
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZW651.8 96ZW751.3 94CY017.4 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	- C - A - T - A - G - G - A - T - A - A - G - G - A - A - T - A - A - G - G - A - A - A - A - A - A	7247 7240 7240 7214 7240 7276 7266 7266 7293 7234 7285 7307 7300 7313
92NG083.2 90CP056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM551.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CP056.1 92RW009.6	CC A T A A G G G A A T A A G G G A A T A A G G G G	7247 7240 7240 7214 7240 7276 7266 7293 7234 7285 7307 7300 7313 7274
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZW651.8 96ZW751.3 94CY017.4 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	CC A T A A G G G A A T A A G G G A A T A A G G G G	7247 7240 7240 7214 7240 7276 7266 7266 7293 7234 7285 7307 7300 7313
92NGO83.2 90CF056.1 92RW009.6 92NGO03.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 93BR020.1 92NGO83.2 90CF056.1 92RW009.6 92NGO03.1 93BR029.4	- C - A - T - A - G - G - A - T - A - A - G - G - A - A - T - A - A - G - G - A - A - A - A - A - A	7247 7240 7240 7214 7240 7291 7276 7266 7293 7234 7285 7300 7313 7274 7300
92NGO83.2 90CF056.1 92RW009.6 92NGO03.1 93BR029.4 94CY032.3 96ZM551.8 96ZM751.3 94CY017.41 93BR020.1 93BR020.1 92NGO83.2 90CF056.1 92RW009.6 92NGO03.1 93BR029.4 94CY032.3	- C - A - T - A - G - G - A - T - A - G - G - A - T - A - A - G - G - A - A - T - A - A - G - G - A - A - A - A - A - A	7247 7240 7253 7214 7291 72766 7293 7234 7285 7307 7300 7313 7274 7300 7351
92NGO83.2 90CF056.1 92RW009.6 92NGO03.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 93BR020.1 92NGO83.2 90CF056.1 92RW009.6 92NGO03.1 93BR029.4	- C - A - T - A - G - G - A - T - A - G - G - A - T - A - A - G - G - A - A - T - A - A - G - G - A - A - A - A - A - A	7247 7240 7240 7214 7240 7291 7276 7266 7293 7234 7285 7300 7313 7274 7300
92NG083.2 90CF056.1 92RM009.6 92NG003.1 93BR0029.4 94CY012.3 962M751.3 94CY017.41 94IN476.104 93BR020.1 92RM009.6 92RM009.6 92NG003.1 94CY017.4 94CY017.4 95BR020.9 92RW009.6	- C - A - T - A - G - G - A - T - A - A - G - G - A - A - T - A - A - G - G - A - A - A - A - A - A	7247 7240 7253 7214 7291 7276 7293 7276 7293 7234 7285 7300 7313 7300 7351 7336
92NG083.2 90CF056.1 92NG009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 93BR020.1 92NG003.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM551.3	- C - A - T - A - G - G - A - T - A - G - G - A - T - A - A - G - G - A - A - T - A - A - G - G - A - A - A - A - A - A	7247 7240 7253 7214 7291 7291 7266 7293 7293 7285 7307 7307 7303 7274 7300 7351 7326
92NG083.2 90CF056.1 92RM009.6 92NG003.1 93BR0029.4 94CY012.3 962M751.3 94CY017.41 94IN476.104 93BR020.1 92RM009.6 92RM009.6 92NG003.1 94CY017.4 94CY017.4 95BR020.9 92RW009.6	- C - A - T - A - G - G - A - T - A - G - G - A - T - A - A - G - G - A - A - T - A - A - G - G - A - A - A - A - A - A	7247 7240 7253 7214 7291 7276 7293 7276 7293 7234 7285 7300 7313 7300 7351 7336
92NG083.2 90CF056.1 92NG003.1 93NG003.1 93ER029.4 94CY032.3 96ZM551.8 96ZM751.3 94IN476.104 93R002.1 92NG083.2 90CF056.1 93R0003.1 92RW009.6 92NG003.1 94CY032.3 96ZM551.8 96ZM551.8	- C - A - T - A - G - G - A - T - A - G - G - A - T - A - A - G - G - A - A - T - A - A - G - G - A - A - A - A - A - G - G	7247 7240 7253 7214 7291 7291 7266 7293 7234 7285 7300 7313 7300 7351 7326 7351 7351 7356 7353
92NG083.2 90CF056.1 92NG009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 93BR020.1 92NG003.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM551.3	- C - A - T - A - G - G - A - T - A - G - G - A - T - A - A - G - G - A - A - T - A - A - G - G - A - A - A - A - A - A	7247 7240 7253 7214 7291 7291 7266 7293 7293 7285 7307 7307 7303 7274 7300 7351 7326
92NG083.2 90CF056.1 92NG003.1 93NG003.1 93ER029.4 94CY032.3 96ZM551.8 96ZM751.3 94IN476.104 93R002.1 92NG083.2 90CF056.1 93R0003.1 92RW009.6 92NG003.1 94CY032.3 96ZM551.8 96ZM551.8	- C - A - T - A - G - G - A - T - A - G - G - A - T - A - A - G - G - A - A - T - A - A - G - G - A - A - A - A - A - G - G	7247 7240 7253 7214 7291 7291 7266 7293 7234 7285 7300 7313 7300 7351 7326 7351 7351 7356 7353
92NG083.2 90CF056.1 92NG003.1 92NG003.1 93BR029.4 94CY032.3 96ZM551.3 94CN7017.41 93BR020.1 92NG083.2 92NG083.2 92NG083.2 92NG096.1 92NG096.1 92NG093.9 92NG093.9 92NG093.1	- C - A - T - A - G - G - A - T - A - G - G - A - T - A - A - G - G - A - A - T - A - A - G - G - A - A - A - A - A - A	7247 7240 7253 72140 7240 7291 7291 7296 7293 7234 7285 7307 7300 7313 7274 7300 7351 7351 7351 7353 7294
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93ER029.4 94CY032.3 94CW151.8 94CW17.1.4 93ER020.1 93ER020.1 92RW009.6 92RW009.6 92NG003.1 94CY012.3 94CY017.4 94CY017.4 94CY017.4 94CY017.4	- C - A - T - A - G - G - A - T - A - G - G - A - T - A - A - G - G - A - A - T - A - A - G - G - A - A - A - A - A - G - G	7247 7240 7253 7214 7240 7276 7276 7276 7293 7234 7285 7307 7300 7313 7274 7300 7351 7356 7353 7294
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93ER029.4 94CY032.3 94CW151.8 94CW17.1.4 93ER020.1 93ER020.1 92RW009.6 92RW009.6 92NG003.1 94CY012.3 94CY017.4 94CY017.4 94CY017.4 94CY017.4	- C - A - T - A - G - G - A - T - A - G - G - A - T - A - A - G - G - A - A - A - A - A - A	7247 7240 7253 72140 7240 7291 7291 7296 7293 7234 7285 7307 7300 7313 7274 7300 7351 7351 7351 7353 7294
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93ER022.4 95ZW651.8 95ZW651.8 95ZW651.8 95ZW651.8 95ZW651.8 95ZW651.8 95ZW651.8 95ZW603.1 93ER009.6 92NG003.1 93ER029.4 93ER029.4 93ER013.3 95ZW651.8 95ZW651.3 95ZW651.3	CC	7247 7240 7253 7214 7240 7291 7276 7293 7234 7287 7307 7300 7351 7274 7307 7302 7353 7294 7345
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93ER029.4 94CY032.3 94CW151.8 94CW17.1.4 93ER020.1 93ER020.1 92RW009.6 92RW009.6 92NG003.1 94CY012.3 94CY017.4 94CY017.4 94CY017.4 94CY017.4	CC	7247 7240 7253 7214 7240 7291 7276 7296 7296 7297 7234 7235 7307 7300 7351 7326 7353 7324 7366 7353 7356 7353
92NG083.2 90CF056.1 92RM009.6 92NG003.1 93ER029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 93R020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 92RW009.6 92NG03.3 94CW017.4 94CW032.3 962M651.8 962M651.8 962M651.8 962M651.8 962M601.7.41	- C - A - T - A - G - G - A - T - A - G - G - A - T - A - A - G - G - A - A - T - A - A - G - G - A - A - A - A - A - A	7247 7240 7253 7214 7240 7291 7276 7296 7296 7297 7234 7235 7307 7300 7351 7326 7353 7324 7366 7353 7356 7353
92NG083.2 90CF056.1 92RW009.6 93NG003.1 93BR0029.4 94CZW051.8 94CZW051.8 94CZW051.8 94CZW051.8 94CZW051.8 94CZW051.4 93BR020.1 93BR020.1 93BR020.3 93CZW051.3 94CZW051.3 94CZW051.3 94CZW051.3 94CZW051.3 94CZW051.3 94CZW051.3	CC A T A A G G G A A T A A G G G A A T A A G G G G	7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7234 7307 7303 7313 7274 7300 7353 7294 7353 7294 7367 7367 7367 7367 7367 7367 7373
92NG083.2 90CF056.1 92RM009.6 92NG003.1 93ER029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 93R020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 92RW009.6 92NG03.3 94CW017.4 94CW032.3 962M651.8 962M651.8 962M651.8 962M651.8 962M601.7.41	CC A T A A G G G A A T A A G G G A A T A A G G G G	7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7307 7300 7313 7274 7300 7351 7351 7356 7353 7294 7360 7373 7360 7373 7360 7373 7360 7373 7373
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 952M651.8 952M751.3 94CY017.41 93BR020.1 92RW009.6 92NG003.1 93ER051.8 952M751.3 94CY017.41 941N476.104 941N476.104 941N476.104	- C - A - T - A - G - G - A - T - A - G - G - A - T - A - A - G - G - A - A - A - A - G - G	7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7307 7300 7313 7274 7300 7351 7351 7356 7353 7294 7360 7373 7360 7373 7360 7373 7360 7373 7373
92NG083.2 90CF056.1 92RW009.6 93NG003.1 93ER029.4 94CY03.3 94CY017.4 94LY017.4 94LY017.4 93ER020.1 93ER020.1 93ER020.1 93ER030.4 94CY017.41 93ER029.4 94CY017.41 93ER029.4 93ER020.1 93ER020.1 93ER020.1 93ER020.1 93ER020.1 93ER020.1 93ER020.1 93ER020.1 93ER020.1 93ER020.1 93ER020.1 93ER020.1 93ER020.1 93ER020.1 93ER020.1 93ER020.1 93ER020.1 93ER020.1	CC A T A A G G G A A T A A G G G A A T A A G G G G	7247 7240 7253 7214 7240 7253 7214 7240 7256 7266 7293 7234 7285 7307 7300 7313 7336 7353 7324 7345 7367 7360 7373 7336
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 952M651.8 952M751.3 94CY017.41 93BR020.1 92RW009.6 92NG003.1 93ER051.8 952M751.3 94CY017.41 941N476.104 941N476.104 941N476.104	CC A T A A G G G A A T A A G G G A A T A A G G G G	7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7307 7300 7313 7274 7300 7351 7351 7356 7353 7294 7360 7373 7360 7373 7360 7373 7360 7373 7373
92NG083.2 90CF056.1 92RW009.6 92NG003.1 938RW032.3 95C2M651.8 96CZM551.8 96CZM551.8 96CZM551.8 96CZM551.8 96CZM561.8 96CZM561.8 96CZM561.8 96CZM561.8 93CZM561.8	- C - A - T - A - G - G - A - T - A - G - G - A - T - A - A - G - G - A - A - T - A - A - G - G - A - A - A - A - A - A	7247 7240 7253 7214 7240 7253 7214 7240 7256 7291 7276 7293 7234 7305 7313 7274 7306 7351 7356 7356 7357 7367 7373 7367 7367 7373 7373
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY012.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.3 94CY017.41 94IN476.104 93BR020.1	- C - A - T - A - G - G - A - T - A - G - G - A - T - A - A - G - G - A - A - T - A - A - G - G - A - A - A - A - A - A	7247 7240 7253 7214 7240 7253 7214 7240 7256 7266 7293 7234 7285 7307 7313 7274 7300 7313 7334 7355 7357 7360 7313 7334 7365 7367 7360 7313 7373 7360 7411 7396
92NG083.2 90CF056.1 92RW009.6 92NG003.1 938RW032.3 95C2M651.8 96CZM551.8 96CZM551.8 96CZM551.8 96CZM551.8 96CZM561.8 96CZM561.8 96CZM561.8 96CZM561.8 93CZM561.8	- C - A - T - A - G - G - A - T - A - G - G - A - T - A - A - G - G - A - A - T - A - A - G - G - A - A - A - A - A - A	7247 7240 7253 7214 7240 7253 7214 7240 7256 7291 7276 7293 7234 7305 7313 7274 7306 7351 7356 7356 7357 7367 7373 7367 7367 7373 7373
92NG083.2 92NG09.56.1 92NG009.6 92NG003.1 93ER002.4 93ER002.4 94C2M51.8 94C2M51.8 94C2M51.8 94C2M51.8 94C2M51.3 93ER002.1 93ER003.1 93ER009.6	CC	7247 7240 7253 7214 7240 7253 7214 7240 7256 7291 7276 7234 7287 7300 7351 7373 7373 7373 7367 7367 7367 7367 736
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 94CY017.41 93BR020.1 93RR020.1	- C - A - T - A - G - G - A - T - A - G - G - A - T - A - A - G - G - A - A - T - A - A - G - G - A - A - A - A - A - A	7247 7240 7253 7214 7240 7253 7214 7240 7259 7291 7291 7296 7293 7234 7285 7307 7300 7310 7336 7326 7353 7274 7360 7313 7274 7360 7313 7274 7360 7313 7274 7360 7313 7374 7360 7314 7360 7314 7367 7360 7314 7367 7360 7314 7367 7367 7367 7374 7367 7367 7367 736
92NG083.2 92NG09.56.1 92NG009.6 92NG003.1 93ER002.4 93ER002.4 94C2M51.8 94C2M51.8 94C2M51.8 94C2M51.8 94C2M51.3 93ER002.1 93ER003.1 93ER009.6	CC	7247 7240 7253 7214 7240 7253 7214 7240 7256 7291 7276 7234 7287 7300 7351 7373 7373 7373 7367 7367 7367 7367 736

Fig. 13U

93BR020.1 TARTOTGCCCTOGAACTCTATTGGGATAAGACT. TA.A.T. 1327 92BR003.6 T. A. A.GAGT A. C. A.C. 7420 92BR003.1 T. A. A.GAGT A. C. A. T. 733 93BR029.4 G. T. A.C. T. TA. A. A.C. 7430 93BR029.4 G. A. T. A.T. 7434 93BR029.4 G. T. A.T. TA.A. A.T. 7436 94CY032.3 G.C. T. A.T. C. C. G.GAGG A.T. 7446 94CY032.4 G. T. A.T. C. C. G.GAGG A.T. 7446 94TN76.104 G.C. T. A.T. C. C. G.GAGG A.T. 7446 94CY017.4 G.C. T. A.T. G. A.G. T. A.C. 7473 94TN76.104 G.C. T. C. C. C. GAAGG A.T. 7446 94CY017.4 G.C. T. G. C. G. G. A.G. A. C. C. C. G. 7487 94TN76.104 G.C. T. G. C. G. G. A.G. A. C. C. C. G. 7487 94TN76.104 G.C. T. A. A. G. G. A. G. T. A.A. T. 7489 92BR003.1 GACCTGGATGGGAAAAGAGGTTAGCAATTACTCAAAGAATATTTTAAGACTTAAT 93BR020.1 GACCTGGATGGGAAAAGAGGTTAGCAATTACTCAAAGAAATATTTTAAGAGATTATTTAAGAGATTATTGAGAAGA		The second secon	7405
Section Sect	93BR020.1	TAATGTGCCCTGGAACTCTAGTTGGAGTAATAAATCTCTTGAGGAGATTTGGGGGAACAT	
928W009.6	92NG083.2	TA-AGAGT A C AC	
92BR003.1	9001036.1		7433
938R029.4	92NG003.1	TAA1A	
94CY032.3	93BR029.4	-GAGAC	
SEZMYS1.3 C.		ATAACT	
94CV17.41		-GCATCAAAACATAT	
941N176 104 - GC - T C		-GC	
92R0083.2		-GCT	
92R0083.2	9380020 1	GACCTGGATGGAGTGGGAAAAAGAGGTTAGCAATTACTCAAAAGAAATATACAGGTTAAT	7465
90CF056.1 T. A. T. C. A. A. G. A. C. AT T. T. C. 7489 92RN009.6 C. C. C. C. A. T. A. A. G. A. C. AT T. T. C. 7493 92RN003.1 A. C. A. G. A. C. A. C. C. C. 7454 93BR029.4 A. A. A. G. A. C. A. C. C. C. 7454 94CY0312.3 A. T. C. A. T. A. A. A. C. AT T. C. C. 7516 96ZM551.8 C. C. T. G. A. A. T. A. C. AT T. C. C. 7516 96ZM551.8 C. C. T. G. A. A. T. A. C. AT T. C. C. 7516 96ZM51.8 A. C. T. G. A. A. A. T. A. C. AT T. C. C. 7516 96ZM51.8 A. C. T. G. A. A. A. T. A. C. AT T. C. C. 7516 96ZM51.8 A. C. T. G. A. A. A. T. A. C. AT T. C. C. 7516 96ZM51.8 A. C. T. G. A. A. A. T. A. C. AT T. C. C. 7518 96ZM51.1 A. T. C. A. T. A. A. C. AT T. C. 7506 96ZM51.1 A. T. C. A. T. A. A. A. C. AT T. C. 7530 94IN476.104 C. T. T. A. C. T. T. A. A. C. C. G. 7574 92RN003.2 A. C. G. G. T. T. A. C. C. G. 7547 92RN003.1 A. C. G. G. T. T. A. C. G. C. G. 7547 92RN009.6 A. C. G. G. T. T. A. C. G. C. G. 7549 92RN009.6 A. C. G. G. T. T. A. C. G. G. T.		TC-AAGGAACAACC-CCC-G	
92RN009.6		TAGC-	
938R029.4 94CY012.3 9. T. C. A. T. A. A. A. A. C. ATT. T. G. C. 75511 96ZM651.8 9. C. T. G. A. A. A. A. A. C. A. T. T. G. C. 7516 96ZM651.8 9. C. T. G. A. A. A. T. A. G. C. T. G. 7503 94IN476.104 9. T. C. A. T. A. A. A. A. T. A. G. A. C. T. G. 7503 94IN476.104 9. T. G. A. T. A. A. A. C. T. G. C. 7503 94IN476.104 9. T. G. A. T. A. A. A. C. T. G. C. T. 7533 94IN476.104 9. T. G. A. A. C. T. A. A. A. C. T. G. C. G. 7573 92IN003.2 9. A. A. C. G. G. G. G. G. G. T. 754 90CF056.1 9. T. A. C. G. G. G. T. 754 92IN003.1 9. A. A. G. G. G. G. G. G. T. 751 92IN003.1 9. A. A. G. G. G. G. G. G. T. 751 94IN003.1 94IN003.1 95IN003.1 96ZM751.3 96ZM751.3 94IN004.1 95IN003.1 95I	92RW009.6		
938R029.4 94CY012.3 9. T. C. A. T. A. A. A. A. C. ATT. T. G. C. 75511 96ZM651.8 9. C. T. G. A. A. A. A. A. C. A. T. T. G. C. 7516 96ZM651.8 9. C. T. G. A. A. A. T. A. G. C. T. G. 7503 94IN476.104 9. T. C. A. T. A. A. A. A. T. A. G. A. C. T. G. 7503 94IN476.104 9. T. G. A. T. A. A. A. C. T. G. C. 7503 94IN476.104 9. T. G. A. T. A. A. A. C. T. G. C. T. 7533 94IN476.104 9. T. G. A. A. C. T. A. A. A. C. T. G. C. G. 7573 92IN003.2 9. A. A. C. G. G. G. G. G. G. T. 754 90CF056.1 9. T. A. C. G. G. G. T. 754 92IN003.1 9. A. A. G. G. G. G. G. G. T. 751 92IN003.1 9. A. A. G. G. G. G. G. G. T. 751 94IN003.1 94IN003.1 95IN003.1 96ZM751.3 96ZM751.3 94IN004.1 95IN003.1 95I		AC-AGGACACCCC	
962M751. 3			
962M751.3		TC-ATAAAA	
33BR020 TGANGACTCCCAGANCCACCAGGANAAGAATGAACAGAATTTTTAGCATTGGACAAATG 7525 20M0081.2		C T-C	
33BR020 TGANGACTCCCAGANCCACCAGGANAAGAATGAACAGAATTTTTAGCATTGGACAAATG 7525 20M0081.2			
92R0083.2		C	7474
92R0083.2	9389020 1	TGAAGACTCGCAGAACCAGCAGGAAAAGAATGAACAAGAATTATTAGCATTGGACAAATG	7525
90CF056 1 T A C G G G 7591 92RN003 1 A A G C G G G 7591 92RN003 1 A A G C G G G 7591 92RN003 1 A A G C G G G G 7591 93RN029 4 A A G G C G G G G 7591 96ZRN513 G A A A G G C G G G G G 7591 96ZRN513 G G G G A A A T G G G G A G 7594 94CN017 41 A A G G C G A T T G G 7594 94CN017 41 A A A G G C G A T T G G 7594 94CN018 2 A A A T G A G C G A T T G G 7594 92RN003 1 G G G A A T T G G T 7534 93RN020 1 G G A A A T G A G C G A T T G G 7594 92RN003 1 G G G A A A T G G C G A T T G G 7594 93RN020 1 G G G A G T T G T A T T A T T G G 7594 93RN020 1 G G G A G T T G T A T T A T T T T T T T			
362M551.8		GC	
362M551.8		A	
362M551.8		A	
362M551.8		G	
362M551.8		G	
94CY017.41 - A - A - G - C - G - A - 7534 93BR020.1 GGCAAGTCTGTGGAATTGGTTTGACATAAACACAGTGGCTTGTGTATATAAAAATATTCAT 7585 93BR020.1 GGCAAGTCTGTGGAATTGGTTTGACATAAACACAGTGGCTTGTGTATATAAAAATATTCAT 7586 93BR020.1 G - A - T - A - T - A - T - 7607 92R0003.1 C - A - A - A - A - T - 7613 93BR029.4 - A - T - A - T - A - T - 7609 94CY012.3 - C - A G - A - A - A - T - 7651 94CY012.3 - C - A G - A - A - A - T - 7636 96ZM551.8 - AAC - A - A - A - T - 7636 96ZM551.8 - AAC - A - A - A - T - 7636 96ZM551.8 - AAC - A - A - A - T - 7636 94CY017.41 - G - C - C - C - T - C - G - T - 7636 94CY017.41 - A - G - C - C - T - C - T - 7659 93BR020.1 AATGATAGTAGGAGGCTTGATAGGCTTAAGAATAGTTTTTACTGTGCTTTCTATAGTAAA 7645 92R0093.6 - T - T - T - G - 7660 92R0093.1 - T A - T - A - G - C - G - 7636 92R0093.1 - T A - T - A - G - C - G - 7636 92R0093.1 - T A - T - A - G - C - G - 7636 92R0093.1 - T A - T - A - G - C - G - 7636 92R0093.1 - T A - T - A - G - C - G - 7636 92R0093.1 - T A - T - A - G - C - G - 7636 92R0093.3 - A - T - A - G - C - G - 7636 92R0093.3 - A - T - A - G - C - G - 7636 92R0093.3 - A - T - A - G - C - G - 7636 92R0093.3 - A - T - A - G - C - G - 7636 94CY017.41 - A - G - C - G - 7696 94CY017.41 - A - G - C - G - 7696 94CY017.41 - A - G - C - G - 7713 94INA76.104 - T - G - A - A - A - A - A - A - A - A - A		G	
93BR020.1 0GCAAGTCTGTGAATTGGTTGACATAGCACTTGGTGTATATAAAAATATTCAT 7585 93ER020.1 0GCCAAGTCTGTGGAATTGGTTGACATAGCACTTGGTGTATATAAAAATATTCAT 7585 92ER003.2		GGGGG	
SPANGOS 2		AA-T	7534
SPANGOS 2		COOL & CHICHOTOCO & MINOCHITTO & CAMPA & CACTOCCTCTCCTATATAAAAAATATTCAT	7585
90CF056.1			
92NR003.1 - T			7600
92NR003.1 - T		ATA-T	7613
94CY012.3 62M651.8 AAC-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-			
94CY012.3 62M651.8 AAC-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-		TA-A	
SeXMYS1.3 AAA-A- A-T	94CY032.3		
94CV17.41		-AAC-A	
94 Na 104 - CA - A		AAA - A	
33BR0 20 . 1			
92NG083.2 TAAT G	94111476.104		
90CF056.1		AATGATAGTAGGAGGCTTGATAGGCTTAAGAATAGTTTTTACTGTGCTTTCTATAGTAAA	
22RW009.6		T-A	
92NG003.1		h	
33BR029.4 G. 7656		T-A	7634
94CY032.3		GG	
SEZIVIS-1.3 A	94CY032.3	AG	
94CY017.41		AA	
94 IN 476 - 104		ACTAG	
ShBR02 0.1 TAGAGTTAGGAAGGATACTCACCTTTGTCATTTCAGCCCATATCCCAAGCCCGAGG. 7703			
93BR020.1 TAGAGTTAGGAAGGGATACTCACCTTGTCATTCCACCCATATCCCAAGCCCGAGG. 7703 92NCG08.2 C G C T C -A TCA A C -725 90CT056.1 C A A T G G A A 7712 92RM009.6 C A A C T C A C A 7712 92RM009.7 C A A C A A C A A 7712 93BB02.9 A G T C C A 7712 94CY03.2 A G T C C A 7714 94CY017.41 C G C T C A A G 7714 94CY017.41 C G G T C A G 7714 94CY017.41 C G G T C A G 7714 94CY017.41 C G G T C G G 7714	941N476.104	→ TAT/REV 2 nd exon start	
92NG083.2 C G-C-C T-C-ATCA-A-C 7725 90CF056.1 C T- T-G-G-A-AC 7718 92RW009.6 C A-A-G- T- A- 7718 92NG003.1 C C- T-C-ACCA-A- 7692 93BR029.4 A- GCT A- 7718 94CY032.3 C T-C- T- CAA-CCARG 7771 96ZW551.8 C G- G- T- G- A- 774 94CY017.41 C G- G- T- C- A- 771 94IN 76.104 C G- G- T- C- GA 771			
90CP056.1			
9280003.1			
92R8093-4 - A GCT - A- 7718 91CY032.3 - T-G T - CAA-CCAACG 7771 94CY032.3 - G - T-G T - CAA-CAACG 7771 952M51.8 - G - G - T - G - A - A - 754 962M51.3 - G - G - T - C - 774 962M751.3 - C - G - T - C - AGA - 7771 94IN476.104 - C - G - T - C - G - 7712 Fig. 13V		C	
94CY012.3		AAAAA	
96ZM651.8		CAA-CCAACG	
962W751.3			
94CY017.41			
Fig. 13V	94CY017.41		
Fig. 13V	94 IN4 76 . 10	CGAGGTCGA	/712
y '		Fig. 13V	
		•	

93BR020.1	.GAACCCGACAGGCCCGAAGGAATCGAAGAAGGAGGTGGAGAGCAAGGCAAAGACAGATC	7762
92NG083.2		7784
90CF056.1	6	7777
		7790
92RW009.6		7751
92NG003.1		7777
93BR029.4	C-3.030	
94CY032.3	G-GTAAAAAG-AG	7831
96ZM651.8	,A-G-AAAAA	7813
96ZM751.3	A T - G - A A A G	7803
94CY017.41	GT	7,830
94IN476.104	AAAAA	7771
	TAT 2 nd exon end ← − 1	
93BR020.1	CGTGAGATTAGTGACCGGATTCTTAGCTCTTGCCTGGGACGACCTGCGGAACCTGTGCCT	7822
92NG083.2	ACTC	7844
90CF056.1	G-16	7837
92RW009.6	-ACTC	7850
	-4-10-1-10-1-10-1-10-1-10-1-10-1-10-1-1	7811
92NG003.1	AC-C	7837
93BR029.4	AA	
94CY032.3	-A-TC-C	7891
96ZM651.8	CAA	7873
96ZM751.3	AA-TCG	7863
94CY017.41	GA-TCAGCAAG	7890
94IN476.104	-A-TCAATAG	7831
J41N470.104	A 10 p	
93BR020.1	$\tt CTTCAGCTACCGCCACTTGAGAGACTTCATATTAATTGCAGCGAGGATTGTGGACA$	7878
	THE AGE INCIDENCE TO A CONTROL OF THE AGE IN	7904
92NG083.2	TAGAGTT-T	
90CF056.1	TACTT-T	7897
92RW009.6	T	7910
92NG003.1		7871
93BR029.4	,,,,,,	7893
94CY032.3		7951
96ZM651.8		7933
96ZM751.3		7917
	TGAC-AC	7950
94CY017.41	TAGT-GG	
94IN476.104	AGCGACTT-T	7891
93BR020.1	GGGGG.CTGAAGAGGGGGTGGGAAGCTCTCAAATATCTGGGGAA	7921
93BR020.1 92NG083.2	GGGGG.CTGAAGAGGGGTGGGAAGCTCTCAAATATCTGGGGAA	7964
92NG083.2	ACGCAGCAGCCTCAAGG-AGACTGCGCTT	
92NG083.2 90CF056.1	ACGCAGCAGCCTCAAGG-AGACTGCGCTT	7964
92NG083.2 90CF056.1 92RW009.6	ACGCAGCAGCCTCAAGG-AGA-T	7964 7936 7970
92NG083.2 90CF056.1 92RW009.6 92NG003.1	ACCCAGCAGCCTCAAGG-A GACT GC G- CT -T GACT GACT GC CT G- CT G- CT G- CT G- CT G- CT G- CC T G- CC G- CC T G- CC	7964 7936 7970 7931
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4		7964 7936 7970 7931 7936
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		7964 7936 7970 7931 7936 7990
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	- ACGCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - GC - A - GCAGCAGCAGTCTCAAGG - A - AC - A - A - A - GCAGCAGCAGTCTCAAGG - A - GCACT - G - GC - T - GC - GC - T - GC - GC	7964 7936 7970 7931 7936 7990 7993
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	- ACGCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - GC - A - GCAGCAGCAGTCTCAAGG - A - AC - A - A - A - GCAGCAGCAGTCTCAAGG - A - GCACT - G - GC - T - GC - GC - T - GC - GC	7964 7936 7970 7931 7936 7990 7993 7950
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	- ACGCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - GC - A - GCAGCAGCAGTCTCAAGG - A - AC - A - A - A - GCAGCAGCAGTCTCAAGG - A - GCACT - G - GC - T - GC - GC - T - GC - GC	7964 7936 7970 7931 7936 7990 7993 7950 8010
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	- ACGCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - GC - A - GCAGCAGCAGTCTCAAGG - A - AC - A - A - A - GCAGCAGCAGTCTCAAGG - A - GCACT - G - GC - T - GC - GC - T - GC - GC	7964 7936 7970 7931 7936 7990 7993 7950
92NG083.2 90CF056.1 92RW0093.1 93BR029.4 94CY032.3 96ZM651.3 96ZM751.3 94CY017.41	- ACGCAGCAGCCTCAGGG - A - GACT - GC - G - CT - T - GC - A-CGCAGCAGCCTCCAGGG - A - AC - A - A - A - A - A - GCAGCAGCAGTCTCAGGG - A - GCAGC - GC - T - A - A - A - A - A - A - A - A - A	7964 7936 7970 7931 7936 7990 7993 7950 8010
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	- ACGCAGCAGCCTCAGGG - A - GACT - GC - G - CT - T - GC - A-CGCAGCAGCCTCCAGGG - A - AC - A - A - A - A - A - GCAGCAGCAGTCTCAGGG - A - GCAGC - GC - T - A - A - A - A - A - A - A - A - A	7964 7936 7970 7931 7936 7990 7993 7950 8010 7951
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	- ACGCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - GC - G - GC - T - GC - GC	7964 7936 7970 7931 7936 7990 7993 7950 8010 7951
92MC083 2 90CF056.1 92RW009.6 92NC903.1 93BR029.4 94CY032.3 962M751.3 94CY017.41 94IN476.104 93BR020.1	- ACGCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - G - A - GCAGCAGCAGCCTCAAGG - A - ACC - A - A - GCAGCAGCAGTCTCAAGG - A - ACC - GC - T - G - GC - T - G - G - G - G - G - G - G - G - G	7964 7936 7970 7931 7936 7990 7993 7950 8010 7951 7981 8024
92MC083.2 90CF056.1 92RW009.6 92RW009.4 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92MG083.2 90CF056.1	- ACGCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - G - A - GCAGCAGCAGCCTCAAGG - A - ACC - A - A - GCAGCAGCAGTCTCAAGG - A - ACC - GC - T - G - GC - T - G - G - G - G - G - G - G - G - G	7964 7936 7970 7931 7936 7990 7993 7950 8010 7951 7981 8024 7996
92NC083 2 90CF056 1 92RW009 6 92NG003 1 93BR029 4 94CY032 3 96ZM651 8 96ZM751 3 94CY017 10 94IN476 104 93BR020 1 93BR020 1 92NG083 2 90CF056 1 92RW009 6	- ACGCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - G - A - GCAGCAGCAGCCTCAAGG - A - ACC - A - A - GCAGCAGCAGTCTCAAGG - A - ACC - GC - T - G - GC - T - G - G - G - G - G - G - G - G - G	7964 7936 7970 7931 7936 7990 8010 7951 7951 7981 8024 7996 8030
92MC083.2 90CF056.1 92RW009.6 92RW009.6 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92BR020.1 92RW0093.2 90CF056.1 92RW0093.1	- ACGCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - G - A - GCAGCAGCAGCCTCAAGG - A - ACC - A - A - GCAGCAGCAGTCTCAAGG - A - ACC - GC - T - G - GC - T - G - G - G - G - G - G - G - G - G	7964 7936 7970 7931 7936 7990 7993 7950 8010 7951 7981 8024 7996 8030 7991
92NC083 2 90CF056 1 92RW009 6 92NG003 1 93BR029 4 94CY032 3 96ZM651 8 96ZM751 3 94CY017 10 94IN476 104 93BR020 1 93BR020 1 92NG083 2 90CF056 1 92RW009 6	- ACGCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - G - A - GCAGCAGCAGCCTCAAGG - A - ACC - A - A - GCAGCAGCAGTCTCAAGG - A - ACC - GC - T - G - GC - T - G - G - G - G - G - G - G - G - G	7964 7936 7970 7931 7936 7990 7993 7950 8010 7951 7981 8024 7996 8030 7991
92MC083.2 90CF056.1 92RW009.6 92RW009.6 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92BR020.1 92RW0093.2 90CF056.1 92RW0093.1	- ACGCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - G - A - GCAGCAGCAGCCTCAAGG - A - ACC - A - A - GCAGCAGCAGTCTCAAGG - A - ACC - GC - T - G - GC - T - G - G - G - G - G - G - G - G - G	7964 7936 7970 7931 7936 7990 7993 7950 8010 7951 7981 8024 7996 8030 7991 7996 8050
92NGO83.2 90CP056.1 92RWO09.6 92NGO03.1 93BR029.4 94CY032.3 962M651.8 962M751.3 94CY017.41 94IN476.104 93BR020.1 92NGO83.2 90CP056.1 92RWG003.1 93BR020.3	- ACGCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - GC - A - A - C - GC - T - GC - A - A - C - GC - T - GC - A - A - GC - GC - T - GC - A - A - GC - GC - T - GC - A - A - A - A - A - A - A - GC - GC	7964 7936 7970 7931 7936 7990 7993 7950 8010 7951 7981 8024 7996 8030 7991
92NG083.2 90CP056.1 92NG009.6 92NG003.1 93ER029.4 94CY03.2.3 962M651.8 962M751.3 94CY071.41 93BR020.1 92NG083.2 90CP056.1 92NG003.1 92RW009.6 92NG003.3 94CY0732.3 94CY032.3	- ACGCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - GC - A - A - C - GC - T - GC - A - A - C - GC - T - GC - A - A - GC - GC - T - GC - A - A - GC - GC - T - GC - A - A - A - A - A - A - A - GC - GC	7964 7936 7970 7931 7936 7990 7993 7950 8010 7951 7981 8024 7996 8030 7991 7996 8050
92NG083.2 90CP056.1 92RW009.6 92RW009.6 94CY032.3 96ZW551.8 96ZW551.8 94CY017.41 93BR020.1 92NG083.2 90CF066.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZW551.8 96ZW551.8	- ACGCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - G - A - G - G - G - CT - T - G - A - G - G - G - G - G - G - G - G	7964 7936 7970 7931 7936 7990 7993 7950 8010 7951 7981 8024 7996 8030 7991 7996 8053
92NG083.2 90CP056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 962MF51.3 94CY017.41 93BR020.1 93BR020.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96CMF51.8 96CMF51.8	- ACGCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - G-CACCAGCAGCCTCAAGG - A - AC - A - A - C - GC - T - A - A - A - A - C - GC - CT - T - A - A - A - A - A - C - GC - A - A - A - A - A - A - A - A - A -	7964 7936 7970 7931 7936 7990 7993 7950 8010 7951 7981 7996 8030 8053 8053 8070
92NG083.2 90CP056.1 92RW009.6 92RW009.6 94CY032.3 96ZW551.8 96ZW551.8 94CY017.41 93BR020.1 92NG083.2 90CF066.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZW551.8 96ZW551.8	- ACGCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - G - A - G - G - G - CT - T - G - A - G - G - G - G - G - G - G - G	7964 7936 7970 7931 7936 7990 7993 7950 8010 7951 7981 8024 7996 8030 7991 7996 8050 8050 8050
92NG083.2 90CP056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 962MF51.3 94CY017.41 92NG083.2 93BR020.1 94CY0732.3 94CY0751.3	- ACGCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - G - A - GCAGCAGCCTCAAGG - A - GACT - G - GC - T - G - A - A - A - A - A - A - GCAGCAGCAGTCTCAAGG - A - GCAT - G - GG - T - G - G - G - G - G - G -	7964 7936 7970 7931 7936 7990 7993 8010 7951 7981 8024 7996 8030 8053 8010 8070 8011
92NG083.2 90CF056.1 92NG003.6 92NG003.1 93BR029.4 94CY032.3 96ZW751.3 94CK017.4 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	- ACCCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - G - A - A - G - A - A - A - A - A - A	7964 7936 7970 7931 7936 7990 7950 8010 7951 8024 7996 8030 7991 8050 8050 8050 8050 8050 8011
92NG083.2 92NG003.6 92NG003.1 92NG003.1 93ENG02.4 93ENG02.4 93ENG02.4 94CY017.4.1 94IN476.104 93ENG03.2 93ENG03.2 92NG003.1 93ENG03.2 92NG003.1 93ENG03.3 94CY017.4 94CY017.4 93ENG03.2 93ENG03.1	- ACGCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - G - A - G - G - G - CT - T - G - A - G - G - G - G - G - G - G - G	7964 7936 7970 7931 7936 7990 8010 8010 7951 7981 8024 8050 8053 8053 8010 8071 8011
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZW751.3 94CY017.41 93BR020.1 92NG083.2 90CF056.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	- ACCCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - G - A - A - G - A - A - A - A - A - A	7964 7936 7970 7931 7936 7990 7950 8010 7951 7981 8024 7991 8030 7991 8050 8050 8050 8050 8011
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CW03.1 94CW03.1 94CW03.1 94CW017.4 94LW076.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.3 94CW017.4 94CW03.2 93CW003.1 93BR029.4 94CW032.3 94CW017.4 94CW032.3 94CW017.4 94CW032.3	- ACCCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - G - A - G - G - G - CT - T - G - A - G - G - G - G - G - G - G - G	7964 7936 7970 7931 7936 7990 8010 7951 7981 8024 7996 8030 8053 8010 8070 8011
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 962W551.3 94CY017.41 93BR020.1 92RW009.6 92NG003.1 93BR020.1	- ACGCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - G - A - GACT - GC - G - CT - T - G - A - GACT - GC - G - CT - T - G - A - GCAGCAGCAGTCTCAAGG - A - ACC - A - C - G - G - T - A - GCAGCAGCAGTCTCAAGG - A - GC - A - G - G - G - G - G - G - G - G - G	7964 7936 7970 7931 7936 7990 8010 7951 7981 8024 7996 8050 8050 8050 8051 8041 8084 8084 8086 8090 8090
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CW03.1 94CW03.1 94CW03.1 94CW017.4 94LW076.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.3 94CW017.4 94CW03.2 93CW003.1 93BR029.4 94CW032.3 94CW017.4 94CW032.3 94CW017.4 94CW032.3	- ACGCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - G - A - G - G - G - CT - T - G - A - G - G - G - G - G - G - G - G	7964 7936 7970 7931 7936 7993 7950 8010 7951 8024 7996 8050 8050 8050 8011 8041 8084 8056 8090 8051 8051
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 962W551.3 94CY017.41 93BR020.1 92RW009.6 92NG003.1 93BR020.1	- ACGCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - GC - ACGCAGCAGCCTCAAGG - A - GACT - A - G- GC - T - A - A - A - A - A - A - A - A - A	7964 7936 7970 7931 7936 7990 8010 7951 7981 8024 7996 8050 8050 8050 8051 8041 8084 8084 8086 8090 8090
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 98EXW651.3 94CY017.41 94IN476.104 93BR020.1 92RW009.3 92RW003.6 93EXW051.3 94CY017.41 94IN476.104 93BR029.4 94CY017.41 93BR029.4 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	- ACGCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - GC - ACGCAGCAGCCTCAAGG - A - GACT - A - G- GC - T - A - A - A - A - A - A - A - A - A	7964 7936 7970 7931 7936 7993 7950 8010 7951 8024 7996 8050 8050 8050 8011 8041 8084 8056 8090 8051 8051
92NG083.2 90CF056.1 92RW009.6 22NG003.1 93BR029.4 94CY032.3 96ZW651.3 94CY017.41 93BR020.1 92NG003.1 92NG003.3 92NG003.1 92NG003.3 94CY017.41 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR030.1	- ACGCAGCAGCCTCAGGC - A - GACT - GC - G - CT - T - G - A - G - G - G - CT - T - G - A - G - G - G - G - G - G - G - G	7964 7936 7970 7931 7936 7993 7950 8010 7951 8024 7996 8050 8050 8051 8061 8084 8056 8090 8051 8056 8110
92NG083.2 90CP056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 962W551.3 94CY017.41 93BR020.1 92NG083.2 90CP056.1 93BR020.1 93BR020.1 94CY032.3 962W551.8 962W751.3 94CY032.3 962W651.8 962W751.3 94CY032.3 962W651.8 962W751.3	- ACGCAGCAGCCTCAAGG - A - GACT - GC - G - CT - T - GC - ACGCAGCAGCCTCAAGG - A - GA - A - A - A - A - A - A -	7964 7936 7970 7931 7936 7990 8010 7951 8024 7996 8030 7991 7996 8053 8010 8070 8071 8041 8084 8056 8090 8051 8056 8110 8113
92NG083.2 90CF056.1 92RW009.6 22NG003.1 93BR029.4 94CY032.3 96ZW651.3 94CY017.41 93BR020.1 92NG003.1 92NG003.3 92NG003.1 92NG003.3 94CY017.41 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR030.1	- ACGCAGCAGCCTCAGGC - A - GACT - GC - G - CT - T - G - A - G - G - G - CT - T - G - A - G - G - G - G - G - G - G - G	7964 7936 7970 7931 7936 7993 7950 8010 7951 8024 7996 8050 8050 8051 8061 8084 8056 8090 8051 8056 8110

Fig. 13W

	ENV end	
93BR020.1	AGCTATTCTCAACATACCTAGAAGAATAAGACAGGGCTTGGAAAGGGCTTTGCTATAAA.	8100
92NG083.2		8143
90CF056.1		8116
92RW009.6	CTATC	8149
92NG003.1	AAAA	8110
93BR029.4		8115
94CY032.3	TGT	8169 8172
96ZM651.8	TGC-TAT	8129
96ZM751.3	C-GGTTGCMAJG.	8189
94CY017.41	C-GTTGCA	8130
94IN476.104	NEF start	114
93BR020.1		8160
92NG083.2	ATGGTGGCAATGGTCAAAAATAAATAAATTAAATTAAAT	8203
90CF056.1	IAA	8176
92RW009.6		8209
92NG003.1	AA	8170
93BR029.4	AT-A	8175
94CY032.3		8229
96ZM651.8		8232
96ZM751.3	AAAAA	8189 8249
94CY017.41	GTGCCCATG	8190
94IN476.104	GAATCAAGGA	9130
	a magazanasana	8193
93BR020.1	AGGCGAACCCCTCCAACCC	8227
92NG083.2	A-ATGT-GA	8200
90CF056.1	ATGAGGA	8233
92RW009.6	- A	8191
92NG003.1 93BR029.4	A-A	8199
94CY032.3	G-T-GAG-TGAGC-AGAAAGAATGAGGCGAGCTCAAGCTGAGCA	8289
96ZM651.8		8256
96ZM751.3	GCAATGAGA	8213
94CY017.41	AATCAG-A-AAAGAACAGAAGCAGTGTCCCA	8303
94IN476.104	ATGAGGA	8214
		0053
93BR020.1	GGGGTGGGAGCAGTGTCTCAAGACTTAGAAAGACGGGGGGGCAATTACAAGCAGCAATACT	8253 8287
92NG083.2	-AAA	8260
90CF056.1	A	8293
92RW009.6	AA	8251
92NG003.1	AACAC	8259
93BR029.4	AA	8349
94CY032.3 96ZM651.8	AA	8316
96ZM751.3		8273
94CY017.41	a a	8363
94IN476.104		8274
93BR020.1	AGAGCTAATAATCCTGACTTGGCCTGGCTGGAAGCACAAGAGGAAGACGAAGTAGGC	8310 8347
92NG083.2	GC-A-CCT-GTGGACTCAT	8347
90CF056.1	GC-TCGTGCC	8320
92RW009.6	CCCAGC C GT-GT	8311
92NG003.1	GC-CAA-CT-GTA	8316
93BR029.4	GCAGGAAAGT	8409
94CY032.3	TA-C-CGCT-GT	8373
96ZM651.8 96ZM751.3	TA-CGGAG-GA	8333
94CY017.41	GCCT-GCGAGGAGAGT	8423
94 IN476 . 104		8334
341114701110		
93BR020.1	TTTCCAGTCAGACCTCAGGTACCTTTAAGACCAATGACCTATAAGGGAGCTGTAGATCTC	8370
92NG083.2	GAGT	8407
90CF056.1	GT- <u>T</u>	8380
92RW009.6	G T AC A T	8413 8371
92NG003.1		8376
93BR029.4	AA G T CT- T	8469
94CY032.3		8433
96ZM651.8		8393
96ZM751.3	CGA	8483
94CY017.41		8394
94IN476.10		
	Fig. 13X	
	<u>-</u>	

93BK020.1	AGICACIIIIIAAAAAAAAAAAGGGGGGACIGGAAGGGIAATIIIACICCAAGAGAAGACAA	8467
92NG083.2	CTTTC	8440
90CF056.1	CT	
92RW009.6	CTTTAG	8473
92NG003.1	CTTAA	8431
93BR029.4	A	8436
94CY032.3	C	8529
96ZM651.8	CTTTAG	8493
96ZM751.3	CTTGTA	8453
94CY017.41	CTTCA	8543
94IN476.104	GCCTTAGT '	8454
,	7	,
93BR020.1	GAGATCCTTGATCTGTGGGTCTACCACACACACACGCTACTTCCCTGATTGGCAGAACTAC	8490
92NG083.2	CATA-TA-TA-	8527
90CF056.1	CATA-TA-TA	8500
92RW009.6	CA	85332
92NG003.1	CAAA	8491
		8496
93BR029.4	T	
94CY032.3		8589
96ZM651.8	A	8553
96ZM751.3	A	8513
94CY017.41	CATTA	8603
94IN476.104	AAAA	8514
93BR020.1	ACACCAGGGCCAGGGATCAGATATCCACTGACCATGGGGTGGTGCTTCAAGCTAGTACCA	8550
92NG083.2	T-TAA	8587
90CF056.1	T-T	8560
92RW009.6	TT-T-AT-AG	8593
92NG003.1	TAAT-TCAA	8551
93BR029.4		8556
94CY032.3	AGAGTCTG-T-TA	8649
96ZM651.8	GAG	8613
96ZM751.3	GA	8573
94CY017.41		8663
94IN476.104	AAA	8574
93BR020.1	GTTGACCCAGAGGAGGTAGAAAAGGCCAATGAAGGAGAGAACAACTGCTTGCT	8610
92NG083.2	A-GT-A-TC-AT	8647
90CF056.1	AA - T C C C A A A	8620
92RW009.6	AGAGT	8653
92NG003.1	A-GTAT	8611
93BR029.4		8616
94CY032.3	ATCGT	8709
96ZM651.8	TGATCT	8673
96ZM751.3	GTT	8633
94CY017.41	AGTCTG-AT-C-C-GAA	8723
94IN476.104	AGT-TAGAT	8634
541N476.104	AGI-IAGCAAGI-IAI	0034
93BR020.1	$\tt ATGAGCCAACATGGAATGGAGGATGAAGA.CAAAGAAGTACTGAAATGGGAGTTTGACAG$	8669
92NG083.2	ATGRECCARCATGGAATGGAGGATGAAGA.CAAAGGAAGTACTGAAATGGGAGTTTGACAG	8706
90CF056.1	CTGAGAA	8679
	TGA-A	
92RW009.6	CGG,GCT-AGA	8712
92NG003.1	CTAGA	8670
93BR029.4		8675
94CY032.3	AG	8768
96ZM6S1.8	T-AGATTCGT-AGA	8732
96ZM751.3	AGAAT-A-GGA	8692
94CY017.41	ATG-ATCCCT A-GGT-A-GT	8782
94IN476.104	T-AGC	8693
93BR020.1	CCGCTTGGCACTGAGACACATAGCCAGAGAGAGACATCCGGAGTACTACCAAGAC TG	8726
92NG083.2	TAC-AG	8766
90CF056.1	TAC-ATCT-GCTA-AGATGC	8736
92RW009.6	T-A-C-AACGC-CCTTTATGC	8772
92NG003.1	TAC-AG	8730
93BR029.4	C-AT-TCATGCTGA-GTGC	8735
94CY032.3	TCTAC-AGGCTGTTATGC	8828
		8792
96ZM651.8	T-A-C-AAT-AGCTTATGC	8752
96ZM751.3	TTC-C-AGCGC-CTTGC	
94CY017.41	AACG	8842

Fig. 13Y

```
NEF end
20.1 AGACTGCTGACACAGAGATTGCTGACACAGAAGAATCT.AAA...GGGACTTTCCA.CTG
.....TTG--G-C-..A-...GGC...
            - TTG-G-C-A - GC-
- GGA - TTCGGT
- GA-AA-T - T-TTG-G-C-A - GC-
- T-TG-G-C-A - GC-
- T
92NG083.2
                                                                                            8767
90CF056.1
                                                                                            8807
92RW009.6
92NG003.1
                                                                                            8780
93BR029.4
                                                                                            8767
              94CY032.3
                                                                                            8827
96ZM651.8
                                                                                            8787
96ZM751.3
94CY017.41 - - TTG-G-CG. - G. - 94IN476.104 -
                                                                                            8874
                                                                                            8775
              GGGACTTTCCAGAG...GGTG.GGCCAGAGGGCGGGACTGGGGAGTGGCTCACCCTCAGAT
                                                                                            8838
9388020 1
              8857
92NG083 2
90CF056.1
                                                                                            8823
              92RW009.6
                                                                                            8862
92NG003.1
93BR029.4
              8920
94CY032.3
              96ZM651.8
                                                                                            8880
              8842
96ZM751.3
              8931
94CY017.41
94IN476.104 -----G-----G...-A-T--T-T-G..-----AT------TCA------
93BR020.1
              GCTGCATATAAGCAGCCGCTTTTCGCCTGTACTGGGTCTCTCTAGTTAGACCAGATTTGA
                                                                                            8898
              92NG083 2
90CF056.1
              92RW009.6
              -----T------T------T
92NG003.1
              8884
93BR029.4
94CY032.3
                                                                                             8980
                                                                                             8939
96ZM651.8
              96ZM751.3
94CY017.41
              T---C---A-----T---G------A
                                                                                             8990
8889
              GCCCGGGAGCTCTCTGGCTAGCTAGGGAACCCACTGCTTAA, GCCTCAATAAAGCTTGCC
             92NG083.2
90CF056.1
              92RW009.6
                                                                                             8981
              92NG003.1
                                                                                             8955
93BR029.4
              ---T------,------
94CY032.3
96ZM651.8
              96ZM751.3
              -----AG-----
94CY017.41
                                                                                             9049
8948
93BR020.1 TTGAG...TGC.TTT
92NG083.2
              -----C
                                     8987
90CF056 1
                                     8953
              -----C-
92RW009.6
                                     8992
92NG003.1
                                     8966
              -----T-A.
93BR029.4
                                     8954
94CY032.3
                                     9050
              -----TC-.
96ZM651.8
                                     9009
96ZM751.3
              -----...---C--.
                                     8972
94CY017.41 ----AGC-T-...
                                     9060
```

Fig. 13Z

GAG		
93BR20.1	MGARASVLSGGKLDAWEKIRLRPGGKKKYRLKHLVWASRELERFALDPGLLETSEGCRKI	60
92NG083.2	VS	60
90CF056.1	NPLQ-	60
92RW009.6 92NG003.1	I-RK-KT-MMN-DPKQ-	60
93BR029.4	IEKHIVNQ-	60 60
94CY032.3		
96ZM651.8	I-RKQ-	60
96ZM751.3	I-RER	60
94CY017.41	I	60
94IN476.104	I-RDKQ-	60
030030 1	·	
93BR20.1 92NG083.2	IGQLQPSLQTGSEELKSLYNTIAVLYYVHQKVEVKDTKEALEKLEEEQNKGRQKTQQATA	120
90CF056.1	MKATRFV-TCIP-EV-KI-KNSQ-EIAK -E-IAIKTF-LVCR-IDD-IISQA-	119 120
92RW009.6	MRATDRV-TCIDSQE-	120
92NG003.1	MREV-KI-KNSQ-EK-AM	120
93BR029.4	LEA-KRV-TCIDIXSKK-AA-	120
94CY032.3	MEST-KRTT-WCRID-OD-II-S-SKA-	120
96ZM651.8	MKATRV-TCEGRDRIIQIK	119
96ZM751.3	-QATRV-TCE-IK-RD-ISQIK	118
94CY017.41	-RATWR-D	118
94IN476.104	-KH-A-KTRFV-TCAGIRD-ISQIKE	120
93BR20.1	EKGVSQNYPIVQNLQGQMVHQSLSPRTLNAWVKVIEEKAFSPEVIPMFSALSEGAT	176
92NG083.2	ME-NSND	179
90CF056.1	NE-NSNPAI-AIV	180
92RW009.6	ADKGKQT	178
92NG003.1	GNSSQTT	180
93BR029.4	NT-NNSQAIVV	180
94CY032.3	- AA-GSSNAII	180
96ZM651.8	QQAADGKT	179
96ZM751.3 94CY017.41	.EATGGK	177
94IN476.104	DT-NSS	176 177
341N4 76.104	AD-R	1//
93BR20.1	PQDLNTMLNTVGGHQAAMQMLKDTINEEAAEWDRLHPTQAGPIPPGQIREPRGSDIAGTT	236
92NG083.2		239
90CF056.1	AMM	240
92RW009.6	VAVA	238
92NG003.1	Q	240
93BR029.4 94CY032.3		240
96ZM651.8	MIMM	240
96ZM751.3		239
94CY017.41		236
94IN476.104	-SWHNM	237
93BR20.1	STLQEQIQWMTGNPPVPVGEMYKRWIILGLNKIVRMYSPVGILDIRQGPKEPFRDYVDRF	296
92NG083.2	SII	299
90CF056.1 92RW009.6	A	300
92NG003.1	SK	298
93BR029.4	SK	300 300
94CY032.3	GSITIS	300
96ZM651.8	SKK	299
96ZM751.3	GANIDISK	297
94CY017.41	GSDII	296
94IN476.104	S	297
93BR20.1	PATE DATO TO THE THE THE TAXABLE PARTY AND THE TAXABLE PARTY TO THE TAXA	256
93BR20.1 92NG083.2	FKTLRAEQATQEVKGWMTDTLLVQNANPDCKTILKALGPGATLEEMMTACQGVGGPSHKA	356 359
90CF056.1	RQSI	360
92RW009.6	S-DN	358
92NG003.1	RAL	360
93BR029.4	YA	360
94CY032.3	CTNEST	360
96ZM651.8	NNNN	359
96ZM751.3 94CY017.41		356
94CY017.41 94IN476.104		356
24 IN4 /6 . 104		357

Fig. 14A

93BR2	0.1	RVLAEAMSOATNTAIMMOKSNFKGORRIVKCFNCGKEGHIAKNCRAPRKKGCWKCGR	413
92NG0	83.2		419
90CF0	56.1	RR	419
92RW0	09.6	L-RK	415
92NG0	03.1	L-RG-S.AANPGIL-RK	419 .
93BR0	29.4	KTIK	418
94CY0	32.3	S-AAAKTIL-RK	419
96ZM6	51.8	RK	4.16
96ZM7		RK	413
94CY0	17.41	L-R	414
	76.104	RHSNRGPKRR	413
93BR2	0 1	EGHOMKDCTE.ROANFLGKIWPSNKGRPGNFIONRPEPSAPPAESFRFGEE.TT	465
92NG0		E	471
90CF0			471
92RW0		P-S-LTN-GMIA	467
92NG0		GIA	471
93BR0			471
94CY0		RMSL	471
96ZM6		HLT	467
96ZM7		EPTAPPA-TE	470
94CY0		P-S-TTNL-MI-	466
	76.104	K	464
93BR2	0 1	PSPKOFOKDEGLYPPLASLKSLFGNDP1 492	
92NG0		P-EKES1 497	
90CF0		LKDKEPRSLLO1 500	
92RW0		SPLREPILS01 494	
92RW0		LPREKESPT1 497	
92NG0		QPI-KEMRSQ1 500	
		S-LPR-KETS-LSO1 500	
94CY0		-ASREA-TSLSQ1 494	
96ZM6		-ASKETASLSQ1 494 -A-RKETASLSQ1 497	
96ZM7			
	17.41	S-LLETREP-N-AILLQ1 496	
941N4	76.104	-ASRETSLSQ1 491	

POL		
93BR020.1	FFRENLAFQQGEARKL HPEQARAVSPASRE LQVRGGD .NP IS .EAG	44
92NG083.2		44
90CF056.1		4.4
92RW009.6		44
92NG003.1		44 45
93BR029.4	VRGN-SLT-	44
94CY032.3 96ZM651.8	PKEFPSNTREBRNBBS	43 .
96ZM651.0	PEGEPSTNT-SNSPTSRECP	49
94CY017.41		44
94IN476.104	PEFPSKNTQ-DNPRS	4.3
		1103
93BR020.1	AE.RRGTVPSLSFPQITLWQRPLVTIRVGGQLKEALLDTGADDTVLEDVNLPGKWKPKMI	103
92NG083.2	- K.GE-AINVKIIGI	102
90CF056.1	-AEGQVKIER-	
92RW009.6	QFNVKIREI	100
92NG003.1	GK-ITINLV-IIQI	103
93BR029.4	TGQIFNKLIR	102
94CY032.3	VQNS-KI	99
96ZM651.8	VQNS-R	105
96ZM751.3	QT-NCS-KIEI	103
94CY017.41	VQTNS-KIEIAR	99
94IN476.104	VQ1NS-K1	23
93BR020.1	GGIGGFIKVKQYDSILIEICGHRAIGTVLVGPTPVNIIGRNMLTQIGCTLHFPISPIETV	163
92NG083.2	RQG-KKINN	162
90CF056.1	IN	162
92RW009.6	NN	160
92NG003.1	I:	162
93BR029.4		163
94CY032.3	LN	162
96ZM651.8	E-RQ-PMKK	159
96ZM751.3		165
94CY017.41	V-LN	163
94IN476.104	DL:	159
93BR020.1	PVKLKPGMDGPKVKQWPLTEEKIKALTEICMEMEKEGKISKIGPENPYNTPVFAIKKKDS	223
92NG083.2	KDKD	
90CF056.1	RSI	222
92RW009.6	ART	220 222
92NG003.1	I	222
93BR029.4		222
94CY032.3		219
96ZM651.8	A.E.	225
96ZM751.3		223
94CY017.41	кк	
94IN476.104	R	219
93BR020.1	TKWRKLVDFRELNKRTQDFWEVQLGIPHPAGLKKKKSVTVLDVGDAYFSVPLDKDFRKYT	283
92NG083.2		282
90CF056.1		. 282 .
92RW009.6	ES	280
92NG003.1	RIEN	282
93BR029.4		283
94CY032.3	PE	282
96ZM651.8	ES	279
96ZM751.3	EG	285
94CY017.41	AHE	283
94IN476.104	EG-G	279
93BR020.1	ASTIPSTNNETPGVRYQYNVLPQGWKGSPAIFQYSMTKILDPFRAKNPDIVIYQYMDDLY	343
92NG083.2	-FIEM	342
90CF056.1	-FÎÎ	342
92RW009.6	-FIQ-QE	340
92NG003.1	-FII	342
93BR029.4	-FEKQ	343
94CY032.3	-F	342
96ZM651.8	-F	339 345
96ZM751.3	-FII	345 343
94CY017.41		343
94IN476.104	-FERK	235

Fig. 15A

92NG083.2	E	402
90CF056.1		402
92RW009.6	E	400
92NG003.1	TANR-FN	402
93BR029.4		403
94CY032.3	A	402
96ZM651.8	A	399
96ZM751.3	KE	405
94CY017.41	SVKE	403
94IN476.104	HAKE	399
93BR020.1	KDSWTVNDIQKLVGKLNWASQIYPGIKVKQLCKLLRGAKALTDIVPLTTEAELELAENRE	463
92NG083.2	-EDAA	462
90CF056.1	IKI	462
92RW009.6	$-\cdots $. 460
92NG003.1	-EEE	462
93BR029.4	TEVA	463'.
94CY032.3		462
96ZM651.8	EK-	459
96ZM751.3	-E	464
94CY017.41	TKE	463
94 IN476.104	EE	459
93BR020.1	ILKEPVHGAYYDPSKDLIAEIQKQGQGQWTYQIYQEPFKNLKTGKYAKMRSAHTNDVKQL	523
92NG083.2	Y-HRG	522
90CF056.1	RIVTI	522
92RW009.6		520
92NG003.1	VEE	522
93BR029.4	YRG	523
94CY032.3	HRTR	522
96ZM651.8		519
96ZM751.3	T	524
94CY017.41	TVI	523
94IN476.104		
2411470.104	T	519
93BR020.1	TEAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY	582
93BR020.1 92NG083.2	TEAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY	582 581
93BR020.1 92NG083.2 90CF056.1	TBAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -VAT-GIKEEV	582 581 581
93BR020.1 92NG083.2 90CF056.1 92RW009.6	TEAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWYV AT-G IK R EV A H T I H AM	582 581 581 579
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	TEAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V -AT-G - I -KREV - A - H	582 581 581 579 581
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	TEAVOKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWYVAT-G	582 581 581 579 581 582
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	TEAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V AT-G I -K-REV A H	582 581 581 579 581 582 581
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	TEAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V AT-G - 1 - K - R - EV - A - H - H - H - H - H - H - H - H - H	582 581 581 579 581 582 581 578
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	TEAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V AT-G I -K-R -EV A H -T I Q -E -	582 581 581 579 581 582 581 578 583
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	TEAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V -AT-G - 1 - K - R - EV - A - H - H - H - H - H - H - H - H - H	582 581 581 579 581 582 581 578 583 583
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	TEAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V AT-G I -K-R -EV A H -T I Q -E -	582 581 581 579 581 582 581 578 583
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104	TEAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V AT-G . I. K. R. EV A HT - I. Q - E - D HAM . Q - E - D HAT - V, K. R. EV - D HTT - I. K. Q - EA - IAM C I. Q - E - D LAM I. Q - E - D LAM I. Q - E - D D TM . K. Q - E - D D LAM I. Q - E - D D LAM I. Q - E - D D D D D D D D D D D D D D D D D	582 581 581 579 581 578 582 583 582 577
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	TEAVQKISLESİVIWGKT. PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V	582 581 581 579 581 582 581 578 583 583
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	TEAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V AT-G I. K-R - EV A H-Y - Y - Y - Y - Y - Y - Y - Y - Y - Y	582 581 579 581 582 581 578 582 577
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	TEAVQKISLESIVIWGKT. PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V - AT - G - 1 - K - R - EV - A - H - H - H - H - H - H - H - H - H	582 581 579 581 582 581 578 583 582 577 642 641
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NW009.6 92NW009.2 93BR029.4 94CY032.3 96ZM651.8 96ZM551.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	TEAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V AT-G I K-R EV A H -T I Q -E - H -AM Q -E - D H -AT V K-R -EV - D H -TT I K-Q -EA - I -AN-C Q -E - D L -AN-C Q -E -D L -AN-C Q -E -	582 581 579 581 582 581 578 583 582 577
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	TEAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V - AT - G 1 - K - R EV - A H	582 581 579 581 578 582 581 578 582 577 642 641 641 641
93BR020.1 92NG083.2 90CF036.1 92RW009.6 92RW009.6 92RW009.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92RW003.2 92CF056.1 92RW009.6	TEAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V	582 581 579 581 578 582 581 578 582 577 642 641 639 641
93BR020.1 92NR083.2 90CP056.1 92RR009.6 92NR003.1 93BR029.4 94CY012.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NR0083.2 90CP056.1 92RN009.6	TEAVQKISLESIVIWGKT. PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V - AT-G 1 K - R EV - A H	582 581 579 581 582 581 577 642 641 639 641
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NS003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 93BR020.1 93BR020.1 92RW0083.2 90CF056.1 92RW009.6 93BR020.1 93BR020.1	TEAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V	582 581 581 582 581 582 581 578 583 582 577 642 641 641 641 642 641
93BR020.1 92NR0083.2 90CF056.1 92RR009.6 92NR0003.1 93BR029.4 94CY032.3 962M751.3 94CY017.41 93BR020.1 92NR008.2 90CP056.1 92NR008.2 92R009.6 92R0003.1 92R0009.6	TEAVQKISLESIVIWGKT. PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V - AT-G - 1 - K - R - EV - A - H - H - H - H - H - H - H - H - H	582 581 581 581 582 581 578 582 577 642 641 641 642 641 643
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NS003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 93BR020.1 93BR020.1 93BR020.1 92RW009.6 92CF056.1 92RW009.6 92NG003.3 94CW009.6	TEAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V -AT-G - I - K- R - EV - A - H	581 581 581 581 582 581 578 582 577 642 641 641 642 641 643 643
93BR020.1 92NC083.2 90CF056.1 92KN009.6 93EN009.9 93EN009.4 94CY032.3 94CY017.41 94IN476.104 93BR020.1 92K009.6 92K056.1 92K0003.2 92K0003.2 92K0003.2 92K0003.1 93BR020.1 92K0003.1 93BR020.1 92K0003.1 93BR020.1 92K0003.1	TEAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V - AT - G - 1 - K - R - EV - A - H - H - A - A - I - C - E - D - A - A - I - A - A - I - A - A - I - A - A	582 581 581 579 581 582 583 582 577 642 641 641 642 641 638 643 642 643 643 643
93BR020.1 92NR083.2 90CF056.1 92RW009.6 92NR003.1 93BR029.4 94CY033.3	TEAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V	582 581 579 581 582 583 583 582 577 642 641 641 642 643 643 643 643 643 643 643
93BR020.1 92NR083.2 90CF056.1 92KN009.6 92KN009.6 94KN093.4 94CY012.3 94CY017.41 94IN476.104 94IN476.104 93BR009.1 92KN009.6 92KN009.6 94CY017.41 92KN009.6 92KN009.6 94CY017.41 93BR029.4 94CY017.41 93BR029.4 94CY017.41	TEAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V - AT - G - 1 - K - R - EV - A - H - M - M - M - M - M - M - M - M - M	582 581 581 581 582 581 578 583 583 577 641 641 641 642 641 643 643 643 702
93BR020.1 92NR0083.2 90CF056.1 92RW009.6 92NR0003.1 93BR029.4 94CY032.3 962M653.8 94CY032.7 94LN476.104 93BR020.1 93BR020.1 94CW017.41 94LW476.104 94LW476.104 94LW476.104 94LW476.104	TEAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V AT-G I K-R EV A H	582 581 581 579 581 578 582 577 641 641 641 642 641 642 647 701
93BR020.1 92NR0083.2 90CF056.1 92RW009.6 92RW009.6 92RW009.3 94CW032.3 94CW032.3 94CW075.1.3 94LW176.104 93BR020.1 92RW009.6 92RW009.6 92RW009.6 92RW009.6	TEAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V - AT-G - 1 - K - R - EV - A - H - H - H - H - H - H - H - H - H	582 581 579 581 579 581 578 583 583 587 641 641 641 642 641 643 643 643 643 647 701
93BR020.1 92NR0083.2 90CF056.1 92RR009.6 92NR0003.1 93BR029.4 94CY032.3 96ZW651.3 94CY037.41 93BR020.1 92NR0083.2 90CF056.1 92NR009.6 92NR009.6 93BR029.4 94CY037.4 94CY037.4 94CY037.4 94CY037.4 94CY037.4 94CY037.4 94CY037.4	TEAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V AT-G I K-R EV A H	582 581 581 579 581 578 582 577 641 641 641 643 642 647 701 701 699
93BR020.1 92NR0083.2 90CF056.1 92RW009.6 93RW009.6 93RW009.3 93BR029.4 93BR029.4 94SW0751.3 94CY017.41 94SW0751.3 94CY017.41 93BR020.1 92RW0083.2 92RW0083.2 92RW009.6 92RW009.1 93BR029.4 93BR029.4	TEAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V - AT-G - 1 - K - R - EV - A - H - H - A - H - H	582 581 581 579 581 582 581 578 582 577 642 641 642 641 643 642 641 643 643 641 643 647 701 702
93BR020.1 92NR0083.2 90CF056.1 92RR009.6 92NR0003.1 93BR029.4 962M751.3 962M751.7.1 93BR020.1 92NR0083.2 90CF056.1 92NR0083.2 90CF056.1 92NR009.6 92NR009.6 92NR009.1 93BR029.4 94CY012.3 94CY012.3	TEAVQKISLESIVIWGKT. PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V - AT - G - 1 - K - R - EV - A - H - H - H - H - H - H - H - H - H	582 581 581 581 581 581 582 581 583 582 576 641 641 641 641 641 642 647 701 701 701 701 701 701 701 701
93BR020.1 92NR0083.2 90CF056.1 92RN009.6 92NR003.1 93BR029.4 942NS13.8 962MF51.3 94CY017.41 941N476.104 93BR020.1 93BR020.1 93RR020.9 94CY017.41 93BR029.4 94CY017.41 93BR029.4 93BR020.1 93BR029.4 94CY017.41 93BR029.4 93BR029.4 94CY017.41	TEAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V - AT-G - 1 - K - R - EV - A - H - H - A - H - H	582 581 581 579 581 582 581 578 582 577 642 641 642 641 643 642 641 701 702 701 702 701 698
93BR020.1 92NR0083.2 90CF056.1 92RR009.6 92NR0003.1 93BR029.4 962M751.3 962M751.7.1 93BR020.1 92NR0083.2 90CF056.1 92NR0083.2 90CF056.1 92NR009.6 92NR009.6 92NR009.1 93BR029.4 94CY012.3 94CY012.3	TEAVQKISLESIVIWGKT. PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY -V - AT - G - 1 - K - R - EV - A - H - H - H - H - H - H - H - H - H	582 581 581 581 581 581 582 581 583 582 574 641 641 641 641 641 642 647 701 701 701 701 701 701 701 701

Fig. 15B

```
VDKLVSAGIRKVLFLDGIDKAQEEHEKYHNNWRAMASDFNIPAVVAKEIVASCDKCQLKG
                                762
93BR020.1
    92NG083.2
                                 761
90CF056.1
    759
9228009.6
                                 761
    762
93BR029.4
    761
94CY032.3
                                 758
96ZM651.8
    763
96ZM751.3
762
                                 757
     EAMHGOVDCS PGIWOLDCTHLEGKIILVAVHVASGYLEAEVIPAETGOETAYFLLKLAGR
93BR020.1
                                822
    ----I-----I-----I
                                 821
92NG083.2
     -----K-----S-
                                 821
90CF056.1
    92RW009.6
                                 819
                                 821
92NG003.1
93BR029.4
                                -822
    94CY032.3
                                 821
818
96ZM651.8
                                 823
96ZM751.3
822
    WPVKTIHTDNGTNFTSATVKAACWWAGIQQEFGIPYNPQSQGVVESMNKELKKIIGQIRD
9332020 1
                                 882
    92NG083.2
                                 881
                                 881
90CF056.1
92RW009.6
                                 879
92NG003.1
                                 882
93BR029.4
    881
94CY032.3
                                 878
962M751.3
                                 883
882
93BR020.1 OAEHLKTAVOMAVFIHNFKRKGGIGGYSAGERTIDIIATDIOTRELOKOIIKIONFRVYY
                                 942
92NG083.2
     90CF056.1
     ----R-----T-------
92RW009.6
     941
92NG003.1
    93BR029.4
                                 942
94CY032.3
                                 941
96ZM651.8
     -----K-----N--K-----
96ZM751.3
                                 943
     -----K---R--T-----
94CY017.41
                                 942
RDSRDPVWKGPAKILWKGEGAVVIODNSEIKVVPRRKAKIIRDYGKOMAGDDCVAGRODE
     1001
92NG083.2
90CF056.1
                                1001
    92RW009.6
                                 999
92NG003.1
                                1001
93BR029.4
                                1002
94CY032.3
     962M651.8
     -----T-----T-S-----T-S
962M751.3
                                1003
1002
93BR020.1
         1003
    -...1
92NG083.2
         1003
90CF056.1
     -...1
         1002
     -...1
92RW009.6
         1000
     -...1
92NG003.1
         1002
93BR029.4
     -...1
         1003
94CY032.3 -...1
         1002
962M651.8
     -...1
         999
```

Fig. 15C

96ZM751.3

94CY017.41

94 IN 476 . 104 - ONME1

-...1

-...1

1004

1003

1002

VIF		
93BR020.1 92BC083.2 90CF056.1 92RW009.6 92BW003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	MENRWQVMIVWQVDRMRINTWKSLVKYHMHISKKAKGWFYRHHFESRHPKISSEVHIPLE	60 60 60 60 60 60 60 60 60 60
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	TABLIVITYWGLLPGBREWHLGOGVSIEWROGRYRTOIDPGLADQLIHIYYFDCFSESAI D-TVR HAKD-Q-H	120 120 120 120 120 120 120 120 120 120
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	RKAILGHKISPRCNYQAGHNKVGSLQYLALITALIAPKKTKPPLPSVQKLVEDRWNKPQKT	180 180 180 180 180 179 180 180 180
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	RGHRESHTWNGH1 192 -DNP1 192G1 192R-CN1 192R-ST1 192 KD-G1 192 -R-NOH1 191 K-R-GNVS1 192 K-R-GN1 192 K-R-GN1 192 K-R-GN	

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VPR
```

```
MEQAPEDQGPQREPYNEWTLDLLEELKNEAVRHFPRPWLHSLGQHIYNTYGDTWEGVEAI
93BR020.1
92NG083 2
      -----G---Y------
      90CF056.1
                                             60
92RW009.6
                                             60
92NG003.1
93BR029.4
                                             60
94CY032.3
      60
60
94IN476.104 --- S----- E----- Q------ Y--E---- A-T----L
                                           - . 59
93BR020.1
      IRILQQLLFIHFRIGCRHSRIGITRQRRVRNGTSRS1
92NG083.2
      96
90CF056.1
92RW009 6
      ------LQ---A---1
      -----IPG--G---AG--1
92NG003.1
93BR029.4
      -----A---A
                               96
      -----P---RGR-W-Q.1
94CY032.3
                               95
      96ZM651.8
96ZM751.3
94CY017.41 --Y-----V-----Q-----I-R----D-A--P1
94IN476.104 --T-------Q------LQR--A---A---1
```

Fig. 17

TAT

```
9388020 1
          MELVDPNLDPWNHPGSQPTTPCTRCYCKWCCFHCYWCFTTKGLGISYGRKKRRQRPRTPQ
         92NG083.2
90CF056.1
         92RW009.6
92NG003.1
93BR029.4
         94CY032.3
96ZM651.8
96ZM751.3
         94CY017.41 --P--K-E-----K-A--K---R--Y--OL--IN----------P-RKPSP
SSQIHQDFVPKQPISQA.RGNPTGPKESKKEVESKAKTDP..1
9388020 1
92NG083.2
         G-KD-NP----LPĪT.S----SEKP---A--TE---LD1
-L-D-NSIS---L-RT.H-D----Q---A--TE--..1
-ED-NPIS---L--T.-D---SE---K---TEA--FD1
                                                  101
90CF056.1
92RW009.6
                                                  100
         -H-D--NP-----LPTT.------TE--QCA1
92NG003.1
                                                  101
          ---L---P-----A----, Q----------Q------, . . 1
93BR029.4
                                                   0.0
          G-KG--NLI----L--QPN-DS---E-Q--K-A--TEA--FA1
94CY032.3
                                                  102
962M551.3 -ED--PIS--L-RT.0--QE--K--T-R-CD1
962M551.3 -ED--NPIS--L-P--QFD--K--TE-QFD1
94CY017.41 -NKD-NPI--SLP--QRV--E-P----E-RFD1
94IN476.104 -ED--NLIS--LP-T.--SE---K--TT--FD1
                                                  101
                                                  3.03
                                                  101
                                                  101
```

Fig. 18

93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CF032.3 96ZM651.8 96ZM751.3 94CY017.41	MAGRSGOSDGELKANYITIKLYQSNYYEKP. ECTEQARRNRRRRRRARQRQIREISDSI	59999999999999999999999999999999999999
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CF032.3 96ZM651.8 96ZM751.3 94CY017.41	LSSCLGRPAEPVPLQLPPLERLHINGSEDCGGAEEGVSSQISGESHTVL3S -A F. FG-SLD-K-G-TSGTQQPQGTET-RP-VLV-PPV TSG-K F. T TSG-K F. VLV-PPVTT. F. I-T-D-G-TSGTQGGTE-B-P-VL-PPV T I-SLD-SKTPETQGSPGTE-GP-VPVTE. SLD-SKTPETQGSPGTE-GP-VPVTT. I-GD-SG-ABETQGSGTTE-PTT. I-GD-SG-ABETQGSGTTE-PTP-F-D-GTT. E-NRTT-D-TSGTLSGTLSG-TSGTLSGTLSG-TSGTLSGTLSGTLSGTLSGTLSGTLSGTLSGTLSGTLSGT	112 119 112 107 119 112 113 107 96 119
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CF032.3 96ZM651.8 96ZM751.3 94CY017.41	GTKE1 1161 1231 1161 1071 1231 1161 1171 1071 1071 1071 1071 1071 107	

VPU

```
93BR020.1
         MSNL..LAIGIAA...LIVALIITIVVWT.IAYIEYKKLVRQRKINRLYKRISERAEDSG
         92NG083.2
90CF056.1
92RW009.6
         92NG003.1
93BR029.4
94CY032.3
         59
96ZM651.8
96ZM751.3
                                                             59
94CY017.41
                                                             54
94IN476.104 -V--LERVDYRLGVGA-----LA-.IVWT--L-R-L-----IE-R-V---
93BR020.1
         NESEGDAEELAALGEVGPFIPGDINNL1
                                   81
92NG083.2
         ----T-T-M-M-D-D-WVG---1
                                    78
90CF056.1
                                    80
         ---D--ID--SK-VG--NYDL--V---1
92RW009.6
                                    81
         -----T---T-VDMVD-D-WVGD--1
                                    76
92NG003.1
         ----D--1
93BR029.4
                                   81
94CY032.3
         ---D-----ST-VGM-N-D-WVGD--1
                                    81
96ZM651.8
         ----T---TMVDM-HLRLL-V-D-1
                                    86
96ZM751.3
         -----N----TMVDM-HLRLL-AIDV1
94CY017.41 ---D--T---S--V-R-HLDF--V--V1
94IN476.104 ----T---ST-VDM-NLRLL-A-D-1
                                    81
```

ENV		
93BR20.1	MRVRGMQRNWQHLGKWGLLFLGTLIICNAAENLWVTVYYGVPVWKEATTTLFCASDAKSY	60
92NG083.2	K-I	60
90CF056.1	METYPS-WRT-IM-LSQKKA-	57
92RW009.6	M-TLM-Y-N-WGTMIM-TSND-EA-	60
92NG003.1 93BR029.4	K-TA-	60 59
94CY032.3		60
96ZM651.8	EILRWWTI-GFWM-MVWGKK	60
96ZM751.3	K-IMQWWII-GFWM-LMMGKKA-	60 -
94CY017.41	M-TYWRG-I-IMM-K-TDD-D-IA-	5.9
94IN476.104	ILCWWII-GFWM-M-Y-VVGKA-	60
93BR20.1	EKEAHNVWATHACVPTDPNPQEVVLENVTERFNMWENNMVEQMHTD11SLWDQSLKPCVK	120
92NG083.2	SS-KEE	120
90CF056.1 92RW009.6	-T-KM-MS	117
92NG003.1	DP-K	120
93BR029.4	31 - K	119
94CY032.3	VINEGA-	120
96ZM651.8	V	120
96ZM751.3	-T-V	120
94CY017.41	DT-VQE	119
94IN476.104	VI	120
93BR20.1	LTPLCVTLDCRNIATNGTNDTIAIND.TLKEDPEAIQNCSFNTTTEIRD	168
92NG083.2 90CF056.1	IN-T	164
92RW009.6	N-TVR-N-SNSTS.SMEAG.GELTVVL E-NNITNVNNTVNITDDMKGEKML	160 163
92NG003.1	N-TNVNCNSNV-STG-SAGTNATCNIE-A.NN.LKI	173
93BR029.4	R-SNAT-NSTQNDE-GMV	162
94CY032.3	SFT-INAT-TNSTNG-VIKEGKDI	161
96ZM651.8	N-TEVNVTR-VN-SVVNNTTNVNNSMNGDMKILK-	171
962M751.3	N-TANITNANIT-NANITNYNNETDMRIL	168
94CY017.41	I-N-SNANTS-HSNSSS-QSPIN-EKYIL	164
94IN476.104	ATYNNTDDKA	158
93BR20.1	VOLUMENT DIVIZEDATOR AND DESCRIPTION OF THE PROPERTY OF THE PR	213
92NG083.2	KQLKVHALFYKLDIVQINKDDNRTYRLINCDASTITQACPKVSWD -KKEEYV-PSNGNKTSH-NVKNF-	213
90CF056.1	QFE	204
92RW009.6	- KQR-YSRFE	212
92NG003.1	-KKTEYRV-PDGNN-VS.NNNVKF-	220
93BR029.4	RPSN-NSSN.DNSSREYNTL	213
94CY032.3	-KK-EYRIP-NARVPINGSNRNNSTEEYMNKFE	216
96ZM651.8	-KKN-YSLET-DSETGNSSKYYNT-ALF-	223
96ZM751.3	-RRQ-D	212
94CY017.41 94IN476.104	-TQYSRVLDESENKNTSGSNTLYNTTFE -KR-EYRPLNENSSSNYSEYINTF-	216 208
541N4 /6 . 104	-KK-E1FENENSSSNISEIINI	208
93BR20.1	PIPIHYCAPAGYAILKCNEKNFTGTGSCKNVSTVQCTHGIKPVVSTQLLLNGSLAEGE.I	272
92NG083.2	FED	268
90CF056.1		263
92RW009.6	NFKD-K-NPE	271
92NG003.1	-LFRGQS	279
93BR029.4		272
94CY032.3 96ZM651.8	F	275 282
96ZM751.3	EG	282
94CY017.41		276
94IN476.104	FKDET-NPE	267
93BR20.1	VIRSQNISDNAKTIIVHLNESVQINCTRP.NNNTRKRISLGPGRVFYTTGEIIGDIRKAH	331
92NG083.2	RE-FTT-VQN-IEIS-PIQAADQ	327
90CF056.1 92RW009.6	I TK Q-KTP-N-T,TS-HAADQ	322
92RW009.6 92NG003.1	IE-TNQTSSVHIQAADVQ-YE-LTVQKTIGS-RIQAA	330 332
93BR029.4	IS-PIA	332
94CY032.3	KTT-NQ-AKA-KGTSVHILTW-AQ	334
96ZM651.8	IE-LTN-V	341
96ZM751.3	IK-MTIE-V,SVRIQTANQ-Y	330
94CY017.41	METNNQFTKP-L-T-I,S-RFQA, NQ	334
94IN476.104		326

Fig. 21A

93BR20.1		
	CNVSGTQWRNTLAKVKAKLGSYFPNAT.IKFNSSSGGDLEITRHNFNCMGEFFYCNTDEL	390
92NG083.2	DIV PM VN T O BYING VN T D TO D CC	386
	RIKEM-KN-T-Q-RKIYN-KNTAT-SRSG-	
90CF056.1	I-R-D-NKHQ-VTQIHLN-RS-KPNM-VRT-SRSG-	381
92RW009.6	-T-NK-NRQAESHE-I-T-I-KNT-SGSG-	390
92NG003.1	QE-QEM-QQ-EQV-NKSITAT-SRSG-	385
93BR029.4	K-NEERKPHSG-	390
94CY032.3	T ND ND WATCHE WAY W ARRIVE W G W MR	
	IND-NDKVISEE-KRLKAPPVT-SKTP-	393
96ZM651.8	I-R-N-TKRE-RNREHKNT-KPT-SRSG	400
	The state of the s	
96ZM751.3	I-EGK-NQR-GERKKS-APT-SRSK'-	389
94CY017.41	INK-L-NDQAEQ-REKKKI-TNPTLSATG-	393
94IN476.104	The state of the s	
941N476.1U4	I - ESN-TKQE-GKAKHKSQVT-SGSR-	385
93BR20.1		
	FNDTKFNDTGFNGTITLPCRIKQIVNMWQEVGRAMYANPIAGNI	434
92NG083.2	NNISNIN-EKRKQLL;	428
90CF056.1	SSWEMHTNYTSKG-ENRPO	1432
92RW009.6	STWSKRNGTWQSN-TELNIRT-QPQ-V-	
	01#	440
92NG003.1		425
93BR029.4		
		429
94CY032.3	STHMQNGTNITSTDST-SQLF-RQSS-	444
96ZM651.8	-SINYTENNTDGTPR-IP-E	444
	The state of the s	
96ZM751.3	GTFNGTNTSNDRS-SQTGQPK	437
94CY017.41	GTWWNNGTWNGPYTPNNTS-IIRPI-	440
	GIMMNNGIWNGFIIPNNIS-I	446
94IN476.104	GTYNGTDMPTYNGTNSSSDI-MR-FI-IKPE	437
93BR20.1	TCNSNITGLLLTRDGGLNSTNETFRPGGGNMKDNWRSELYKYKVVEIEPLGVAP	488
92NG083.2	V V T V VDG MD	
	V-KIT-K-KS	484
90CF056.1	M-VI-I-ENA-AENYD-RKI	487
02011000 6		
92RW009.6	S-VKKKKKK	495
92NG003.1	RI-K-KI	480
	T K K I	
93BR029.4	SQ-NQTE	484
94CY032.3	N-S-DIIKI	497
96ZM651.8	N V D	
	A-K-DKKI	503
96ZM751.3	KKKK	493
94CY017.41	K-TN-GN-GKL	500
94IN476.104	EKI	492
F 12111701201	L DING	452
93BR20.1	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA	548
92NG083.2	The state of the s	
	-R-R-R-EKVA-VA-V	544
90CF056.1	TR-REKMS	547
92RW009.6	-RREKV-I	555
92NG003.1	R-R-E-GKV	540
	, , , , , , , , , , , , , , , , , , ,	
93BR029.4		544
94CY032.3	NR-R-QKIM	556
96ZM651.8	-EREKIV	
96ZM751.3		
	P-P-F-VI-V	563
	K-REK1V	553
94CY017.41	-RREKV	
	-RREKV	553 560
94C1017.41 94IN476.104	K-REK1V	553
94IN476.104	-RREKV	553 560
94IN476.104		553 560 552
94IN476.104 93BR20.1		553 560 552 608
94IN476.104 93BR20.1 92NG083.2		553 560 552
94IN476.104 93BR20.1		553 560 552 608 604
94IN476.104 93BR20.1 92NG083.2 90CF056.1		553 560 552 608 604 607
94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6		553 560 552 608 604
94IN476.104 93BR20.1 92NG083.2 90CF056.1		553 560 552 608 604 607 615
94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1		553 560 552 608 604 607 615 600
94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4		553 560 552 608 604 607 615
94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4		553 560 552 608 604 607 615 600 604
94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		553 560 552 608 604 607 615 600 604 616
94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZW651.8		553 560 552 608 604 607 615 600 604
94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		553 560 552 608 604 607 615 600 604 616 623
94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		553 560 552 608 604 607 615 600 604 616 623 613
94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		553 560 552 608 604 607 615 600 604 616 623
94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		553 560 552 608 604 607 615 600 604 616 623 613 620
94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		553 560 552 608 604 607 615 600 604 616 623 613
94IN476.104 93BR20.1 92NG083.2 90CP056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		553 560 552 608 604 607 615 600 604 616 623 613 620
94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		553 560 552 608 604 607 615 600 604 616 623 613 620 612
94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZW651.8 96ZW751.3 94CY017.41 94IN476.104 93BR20.1		553 560 552 608 604 607 615 600 604 616 623 613 620 612
94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZW651.8 96ZW751.3 94CY017.41 94IN476.104 93BR20.1 93BR20.1		553 560 552 608 604 607 615 600 604 616 623 613 620 612
94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZW651.8 96ZW751.3 94CY017.41 94IN476.104 93BR20.1 93BR20.1		553 560 552 608 604 607 615 600 604 616 623 613 612 668
94 IN476 .104 93BR20 .1 92NG083 .2 90CF056 .1 92RW009 .6 92NG003 .1 93BR029 .4 94CY032 .3 962W551 .3 94CY017 .10 93BR20 .1 93BR20 .1 92NG083 .2 90CF056 .1		553 560 550 608 604 607 615 6004 616 623 620 612 668 664 667
94 IN476 .104 93BR20 .1 92NG083 .2 90CF056 .1 92RW009 .6 92NG003 .1 93BR029 .4 94CY032 .3 96ZW651 .6 96ZW751 .3 94CY017 .41 94 IN476 .104 93BR20 .1 92NG083 .2 90CF056 .1 92RW009 .6		553 560 552 608 604 607 615 600 604 616 623 613 612 668
94 IN476 .104 93BR20 .1 92NG083 .2 90CF056 .1 92RW009 .6 92NG003 .1 93BR029 .4 94CY032 .3 962W551 .3 94CY017 .10 93BR20 .1 93BR20 .1 92NG083 .2 90CF056 .1		553 560 552 608 604 615 600 616 623 620 612 668 664 667 675
94 IN 476 . 104 93BR20 . 1 92NG083 . 2 90CP056 . 1 93BR009 . 6 92NG003 . 1 93BR029 . 4 94CY032 . 3 96CW751 . 3 94CY017 . 41 93BR20 . 1 93BR20 . 1 92NG083 . 2 90CP056 . 1 92NG003 . 1		553 5602 608 604 607 615 600 604 616 613 622 664 667 6765
94 IN476 .104 93BR20 .1 92NG983 .2 90CF056 .1 92RW009 .6 92NG003 .1 93BR029 .4 94CY032 .3 96ZM551 .8 96ZM751 .3 94CY017 .41 94 IN476 .104 93BR20 .1 92NG083 .2 90CF056 .1 92RW009 .6 92NG003 .1 93BR029 .4		553 560 552 608 604 615 600 616 623 620 612 668 664 667 675
94 IN 476 . 104 93BR20 . 1 92NG083 . 2 90CP056 . 1 93BR009 . 6 92NG003 . 1 93BR029 . 4 94CY032 . 3 96CW751 . 3 94CY017 . 41 93BR20 . 1 93BR20 . 1 92NG083 . 2 90CP056 . 1 92NG003 . 1		553 5602 608 604 607 615 600 604 616 623 613 612 668 664 675 666
94IN476.104 93BR20.1 92NG983.2 90CF056.1 92RW009.6 92RW009.6 92RW009.6 94CU032.3 96ZW751.4 94IN476.104 93BR20.1 92RW009.6 92NG003.1 93BR209.4 94CY037.3		553 550 552 608 604 607 615 600 616 623 620 612 664 667 660 664 667 660 660 660 660 660 660 660 660 660
941N476.104 93BR20.1 93ER20.1 93CR0683.2 90CF056.1 93ER009.4 94CY032.3 96CZM551.8 94CY017.41 93ER20.1 94IN476.104 93ER20.1 92ER009.9.6 92ER009.9.6 92ER009.9.6 92ER009.9.6		553 5602 608 604 607 615 600 604 616 623 613 612 668 664 675 666
94IN476.104 93BR20.1 92NG983.2 90CF056.1 92RW009.6 92RW009.6 92RW009.6 94CU032.3 96ZW751.4 94IN476.104 93BR20.1 92RW009.6 92NG003.1 93BR209.4 94CY037.3		553 5602 608 604 6075 600 6016 623 612 668 667 675 668 664 675 668 664 675 683
94IN476.104 93BR20.1 92NG983.2 90CF056.1 92RW009.6 92NW009.6 92NW009.6 92NW009.6 94CY032.3 94CY032.3 94CY051.4 94IN476.104 93BR20.1 92NW009.6 92NW009.6 92NW009.6 92NW009.3 94CY0551.3 95ER09.4		553 550 552 608 604 607 615 600 616 623 620 613 620 664 667 668 664 675 660 664 676 683 672
941N476.104 93BR20.1 93CR983.2 90CF056.1 93CR0003.4 94CY017.43 94CY017.41 93BR20.1 94IN476.104 93BR20.1 93CR0056.1 93CR0056.1 93CR056.1 93CR056.1 93CR056.1 93CR056.1 93CR056.1 93CR056.1		553 5602 608 604 6075 600 6016 623 612 668 667 675 668 664 675 668 664 675 683
941N476.104 93BR20.1 93CR983.2 90CF056.1 93CR0003.4 94CY017.43 94CY017.41 93BR20.1 94IN476.104 93BR20.1 93CR0056.1 93CR0056.1 93CR056.1 93CR056.1 93CR056.1 93CR056.1 93CR056.1 93CR056.1		553 550 608 604 615 6004 615 613 613 612 664 675 664 675 664 676 675 675 675
941N476.104 93BR20.1 93CR983.2 90CF056.1 93CR0003.4 94CY017.43 94CY017.41 93BR20.1 94IN476.104 93BR20.1 93CR0056.1 93CR0056.1 93CR056.1 93CR056.1 93CR056.1 93CR056.1 93CR056.1 93CR056.1		553 550 552 608 604 607 615 600 616 623 620 613 620 664 667 668 664 675 660 664 676 683 672

Fig. 21B

```
LWYIKIFIMIVGGLIGLRIVFTVLSIVNRVRKGYSPLSFQTHIPSPRE.PDRPEGIEEGG
93BR20.1
        . 723
92NG083.2
90CF056.1
                                                       7.26,
        -----L--N--G.---LG----E-
92RW009.6
                                                       734
        ------LTHHQ--.---R----
                                                       719
92NG003.1
        -----L--RF-----
                                                       723
93BR029.4
        ------I-A-----O-----L--L--TTQRGL---G-T--E-
                                                       736
94CY032.3
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